



Permethrin: Treatment for Clothing

- You could be hiking anywhere in the Northeast or other parts of the country, where there is tick-borne Lyme Disease, and mosquito-borne West Nile fever and ehrlichiosis.
- You could be camping anywhere in the South, where there is tick-borne Rocky Mountain Spotted Fever, Colorado Tick Fever, and ehrlichiosis.
- You could be fishing or playing soccer in Florida, where there is mosquito-borne encephalitis.
- You could be backpacking in Arizona, where there is flea-borne Bubonic plague.
- You could be in any part of the world, overseas, where there is malaria, yellow fever, Dengue fever, Tularemia, encephalitis, leishmaniasis, conjunctivitis, River blindness, and perhaps any one of 70 other insect-borne diseases.
- Prevention from these insect-borne diseases comes in the form of new and revolutionary insect repellents containing PERMETHRIN.

Using prevention techniques, before the bite, is the key to safe and successful camping and field outings across North America and in foreign lands. Permethrin clothing applications were developed and originally introduced by Coulston Products Incorporated, in cooperation with and for use by the U. S. Military. Working with government agencies, universities and others, these repellents were developed to protect you from insect-borne diseases largely carried by a broad spectrum of biting, crawling and bloodsucking insects. Permethrin was developed from, and is the artificial analog of naturally occurring pyrethrin from flowers. Permethrin is an odorless repellent that also kills ticks and mosquitoes.

At the same time, these repellents will not interrupt your outdoor adventures from the threat nor shear nuisances of these insects. Permethrin repellents are specially formulated so not to stain or damage your clothing, other fabrics, gear and equipment, including plastics or finished surfaces. Permethrin is odorless after drying, and some formulas are odorless during spray application. One application to your outdoor clothing can last up to 6 weeks ...including through weekly launderings.

These new insect repellents are designed for application to clothing and not to your skin. The active ingredient, PERMETHRIN, chemically bonds itself to the fabric fibers as a part of the drying process. The fiber bonding allows the Permethrin molecules to keep on working to defend you, even through the roughest days outdoors and with repeated washings.

Permethrin is a synthetic broad-spectrum insecticide, similar to natural pyrethrin insecticides. Permethrin is ineffective when applied to your skin, yet very durable on clothing and gear. Permethrin, a complex organic compound, when metabolized by the skin (the largest organ of the body) through a process of ester hydrolysis is broken down to amino acids (simple proteins), carbon dioxide and water. This is the same process that digests hand and body lotions when applied to your skin.

Proven techniques to protect yourself from these insects and their common diseases are wearing long-legged trousers, bloused at the ankles and tucked into the boots or socks, long-sleeved shirt fully buttoned and tucked in, and a jacket or coat. As a safety precaution and when hiking in known high tick-incident areas, treatments with a 0.5% Permethrin spray on all surfaces of outer garments is very important. For added safety, you should always conduct a total body inspection to look for ticks, even if you have treated your clothing with Permethrin.



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Leave nothing to chance to prevent contracting any one of many common insect-borne diseases. If your outdoor experience calls for you to camp out-of-doors, in a nylon (synthetic) tent or under mosquito netting, be sure to treat bedding or tent netting, flaps and zippers with a Permethrin spray to keep flying and crawling insects away at night. You should never treat the roof of any canvas tents, so to not affect the tent cotton-duct fabric water repellency.

Treat your clothing and gear, with a 0.5% Permethrin spray before you pack for your next hike, camping trip or great outdoor high adventure. Choose a sheltered area outdoors to make spray applications to your clothes. If desired, apply any additional fabric water repellents after the Permethrin application dries.

Use 0.5% Permethrin Tick Repellents for all of your outdoor activities...

CAMPING BACKPACKING HIKING
BIRDING CLIMBING FORESTRY
BACKYARDS BARBECUES PICNICS
CONSERVATION HUNTING FISHING
MOUNTAIN BIKING HORSEBACK RIDING
ALL OUTDOOR RECREATION, LIVING & WORK

To enhance your protection from flying and biting insects, such as mosquitoes and biting flies, use a topically-applied insect repellent to skin containing the active ingredient DEET, such as *Sawyer® Controlled Release DEET Formula*, a protein-based, sub-micron encapsulated 20% DEET lotion. One application will last up to 20 hours, is water and sweat-proof, and skin absorption has been tested at 90% less than unencapsulated or straight 20% DEET. Use DEET in warmer weather, on all exposed skin, especially when wearing shorts and t-shirt, for mosquito protection, especially where Permethrin-treated clothes are lacking. The combination of Permethrin-treated clothing and Controlled Release DEET on skin gives you the best total protection and body armor from the broad spectrum of biting and bloodsucking insects.