

# PermaSease<sup>®</sup> UC 20-20

ADAPCO<sup>®</sup> is pleased to provide a full portfolio of permethrin technologies. This includes a line of Universal Concentrate (UC) formulations for added flexibility and ease of use. As an important aspect of public health and mosquito control programs, PermaSease uses the pyrethroid permethrin as the active ingredient. PermaSease provides quick, consistent knockdown and kill of mosquitoes.

Flexibility and adaptability make PermaSease UC 20-20 a straightforward choice for mosquito control. The flex formulation can be applied undiluted or diluted with oil or water. PermaSease UC 20-20 is labeled for ground (ULV or thermal), aerial, or barrier application for the control of mosquitoes and other flies of nuisance or public health importance.

PermaSease UC 20-20 can be applied to a wide range of areas including residential, industrial, commercial, urban, and recreational areas. A rate of up to 0.007 pounds of permethrin per acre can be used for ULV applications and up to 0.1 pounds of permethrin per acre can be used for barrier application.

## Features and Benefits

- A 20.6% permethrin and 20.6% PBO formulation
- Formulation allows the product to be applied undiluted or diluted with water or oil
- Labeled for ground, aerial, and barrier applications
- Rapid knockdown of adult mosquitoes
- Labeled for use against mosquitoes, black flies, midges, and other flies of nuisance or public health importance
- Able to be used in a wide variety of areas including residential, industrial, commercial, urban, and recreational areas
- ULV application rates up to 0.007 pounds of permethrin per acre
- Barrier application rates up to 0.1 pounds of permethrin per acre
- Easy to mix with ADAPCO's Concentrated Insecticide Injection System (CIIS) dual pump mixing station



## Mode of Action

Permethrin is a type I pyrethroid (group 3A). Pyrethroids are sodium channel modulators and impact the nervous system by disrupting the normal activity of the voltage-gated sodium channel in the insect. This causes overexcitation and eventually death in the insect.

Piperonyl butoxide, or PBO, is a synergist and is not designed to kill insects on its own. When PBO is coupled with a pyrethroid, like permethrin, it decreases the ability of the mosquito to detoxify the permethrin, which can increase the efficacy of the product.

**Innovation  
through  
formulation**

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