

Duet - Duel Action Adulticide is a synergized synthetic pyrethroid consisting of 1% Prallethrin (ETOC), 5% d-Phenothrin (Sumethrin), 5% Piperonyl Butoxide, and 89% other ingredients such as mineral oil. Duet's EPA Reg. No. is 1021-1795-8329. The product breaks down very quickly when exposed to sunlight. Therefore residue on plants and other treated surfaces should be short lived. Plymouth County Mosquito Control applies this chemical using truck mounted ULV (ultra low volume) sprayers. The Project uses an application rate of 0.62 fl oz per acre.

[Duet ULV Label](#)

[Duet MSDS Sheet](#)

[Duet Overview](#)

Frequently Asked Question:

1. Should I wash down toys and other items in the yard at the time of the application?

While you can if you wish it is not necessary to wash the items in your yard after the application. Due to our low application rates any exposure from contact with these surfaces would be low and pose negligible risks.

2. Should I cover the pool before the application?

No, the residues in the pool would be low and also diluted by the water in the pool.

3. Should I close the windows and turn off my air conditioner?

The ULV vapor disperses readily and little movement of the material into open windows with screens would be expected. However individuals with upper respiratory problems such as asthma may react to ULV applications and closing windows and turning off air conditioners is recommended to protect these individuals.

4. How long should I wait before I let my pet out?

When the chemical is applied at the labeled rates there are wide margins of safety for humans, dogs, cats and other mammals. Indoor pets may be "let-out" immediately following the application. Outdoor pets may be left outdoors.

5. How long should I wait before allowing the children to enter the yard?

The ULV vapor disperses very quickly after the application. However, individuals with respiratory problems such as asthma may react to ULV application. People with these health issues may want to wait an hour before resuming outdoor activities in treated areas.

6. When can I let my horse or other animal graze on the grass again?

While, there is no requirement to remove foraging animals from the site. We recommend that if possible the animal be removed from the area while the application is occurring. The animal can be returned to the site shortly afterward. Any feed or water should be covered.

7. How quickly does the chemical break down?

Sumithrin breaks down primarily through exposure to sunlight. According to the World Health Organization, residues of sumithrin on certain plants and soils showed a half-life from less than one-day to 1-2 days, respectively.

8. How do I get on your no-spray list?

Plymouth County Mosquito Control Project maintains a list of people who do not wish to be sprayed. The operation of our "No Spray" list is governed by the MA Department of Agriculture Resources: Pesticide Board under regulation 333 CMR 13.03. In order for residents to be put on the "No Spray" list a certified letter must be sent to your town clerk by March 1st, of every year. The application can only be made by a person living on or legally in control of the property. The letter should include the name, address, and telephone number of the person making the request, the address of the property to be excluded and a description of the types of pesticides for which they wish to be excluded. The excluded property must be marked with orange flagging every 50 ft. The flagging should be visible from the road at night. In the event of a public health emergency we cannot honor the no spray list.