

5-7-97

EFFICACY REVIEWDATE: IN 3-24-97 OUT 5- 7-97FILE OR REG. NO. 4816-696

PETITION OR EXP. PERMIT NO. \_\_\_\_\_

DATE DIV. RECEIVED October 31, 1996DATE OF SUBMISSION October 8, 1996

DATE SUBMISSION ACCEPTED \_\_\_\_\_

TYPE PRODUCT(S): (I,)D, H, F, N, R, S \_\_\_\_\_

DATA ACCESSION NO(S). None; D234569; S518206; Case# 017625; AC:300PRODUCT MGR. NO. 13-LaRocca/DeLuiisePRODUCT NAME(S) Permanone® General Purpose Aqueous InsecticideCOMPANY NAME AgrEvo Environmental Health

SUBMISSION PURPOSE Reference of previously reviewed data in support  
of claim for dust mite control on carpeting, up-  
holstered furniture and mattresses by spraying.

CHEMICAL & FORMULATION Permethrin: (3-phenoxyphenyl)methyl(+)cis,  
trans 3-(2,2-dichloroethenyl) 2,2-dimethylcyclopropanecarboxylate\*  
\*Cis/trans isomer ratio: 0.5%  
Minimum 35%(+) cis, (8.31 lbs./gal. aqueous, ready-to-use spray)  
Maximum 65%(+) trans

CONCLUSIONS & RECOMMENDATIONS Based on a previously known weight  
per gallon of 8.31 pounds of product, we arrive at a weight in mil-  
ligrams active per quart of product of 4,711.6918, which, when ap-  
plied according to label directions to 50 square feet of carpeting  
results in 0.6544 milligram a.i. per square inch, the rate also to  
be used for upholstered furniture and mattresses. Comparing the  
rate used in the previously reviewed data for EPA Reg. No. 67503-2,  
"Allercurb/Medachieve Multi-Purpose 10% E.C.", we may only approxi-  
mate the deposition rate because we do not have a definite weight  
per gallon for that product. However, presuming approximately 1.0  
pound active per gallon, we arrive by 1:100 dilution of that 10%  
product at 4,535.9247 milligrams a.i. per gallon, and application  
of that amount of solution to 130 square feet of carpeting as per  
label directions for dust mites. This would result in 0.2423036  
milligram a.i. per square inch, which is about 37% of the rate for  
the subject product. Therefore, we would expect high mortality of  
dust mites on treated surfaces sprayed with the subject product.  
However, the usability of this data to support this claim depends on  
the validity of the registrant's statement that the reference prod-  
uct was registered using AgrEvo data, of which there is no evidence  
on the data itself since there is no mention of AgrEvo therein.

BRAGETHAN  
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RL Vern L. McFarland, IB