

US EPA ARCHIVE DOCUMENT

EFFICACY REVIEW

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

DATE DIV. RECEIVED April 7 and May 5, 1999

DATE OF SUBMISSION April 5 and May 3, 1999

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

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

DATA ACCESSION NO(S) 448914-01 & 448915-01; D258982; S567331; Case # 064695; AC:305

PRODUCT MGR. NO. 13-Layne/DeLuise

PRODUCT NAME(S) SMITE® 25WP

COMPANY NAME Medachieve, Incorporated

SUBMISSION PURPOSE Provide product specific performance data in support of registration (after the fact) of a new formulation of the a.i. for house dust mite.

CHEMICAL & FORMULATION Permethrin: (3-phenoxyphenyl)methyl(+)cis, trans 3-(2,2-dichloroethenyl) 2,2-dimethylcyclopropanecarboxylate\*  
\*Cis/trans ratio: 25.0%  
Maximum 55%(±) cis (30.5 lbs. per cu.ft. bulk density powder)  
Minimum 45%(±) trans

CONCLUSIONS & RECOMMENDATIONS The data presented in EPA Accession (MRID) Number 448914-01, submitted on April 5, 1999, having been obtained from standard laboratory testing designed to simulate actual use, and meeting the requirements of § 95-11(b) (1) to (7) on p. 268 and the standard of § 95-11(c) (2) (ii) (A) (a) on p. 270 of the Product Performance Guidelines, are adequate to demonstrate satisfactory reduction in live mites of the American house dust mite, *Dermatophagoides farinae*, within 96 hours after treatment either alone at concentrations of 0.15% and 0.25%, or combined with 2.2% Intersept® Fungistat/Bacteriostat at the same 2 concentrations. Thus, the data are adequate to demonstrate absence of any adverse effects from combining the dilute solution with the fungistat/bacteriostat on effectiveness against house dust mites on carpeting. Similarly, data in MRID No. 448915-01, submitted on May 3, 1999, having been obtained from standard laboratory testing meeting the same requirements and standard are adequate to demonstrate nearly complete reduction in live American house dust mite (to be cont'd)

within 96 hours after treatment using either a 0.15% or 0.25% concentration of the subject product applied to Solenium carpeting as a pretreatment to simulate commercial and/or industrial treatment of new carpeting or fabric ticking or subticking materials used in the construction of mattresses, mattress ticking, subticking, pillows, stuffed toys and other upholstered products to protect them against dust mites. Therefore, these two data submissions satisfy the requirement to demonstrate the efficacy of the wettable powder formulation against adult house dust mites as discussed in phone conversation between George LaRocca and Michael Jackson prior to April 5 as a follow-up to our review of February 26, 1999, g.v. The May 3 submission of data was a reply to the Agency's letter of April 8, 1999, and demonstrates efficacy against dust mites from treated carpeting with the wettable powder formulation diluted and applied according to label rates and directions.

RL Vern L. McFarland, IB