

US EPA ARCHIVE DOCUMENT

EFFICACY REVIEW

DATE: IN 5-25-93 OUT 7- 8-93

FILE OR REG. NO. 54089-1

PETITION OR EXP. PERMIT NO. _____

DATE DIV. RECEIVED April 16, 1993

DATE OF SUBMISSION March 15, 1993

DATE SUBMISSION ACCEPTED _____

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

DATA ACCESSION NO(S). 427452-01;D191660;S441405;Case#030620;AC:300

PRODUCT MGR. NO. 14-Forrest/Cromwell

PRODUCT NAME(S) M7 Mop-On Roach Killer Insecticide

COMPANY NAME R Value/West

SUBMISSION PURPOSE Provide performance data in support of amended application directions for control of larval fleas by carpet extraction, spraying & dusting.

CHEMICAL & FORMULATION Disodium octaborate tetrahydrate 99.4% (25-35 lbs./cubic foot bulk density, powder)

CONCLUSIONS & RECOMMENDATIONS The data presented in EPA Accession (MRID) Number 427452-01, having been obtained from laboratory testing which simulated the actual use pattern and thus satisfied the requirements of § 95-11(b)(1)-(7) and meets the standard of § 95-11(c)(2)(ii)(A)(a) and (b) with respect to larval fleas as crawling insects to be controlled, are adequate to support claims for the subject product when applied to carpeting by means of carpet cleaning equipment (extractors/shampooers) at 4 oz. per gallon per 75-120 square feet of surface area (= 6.56-10.5 mg product per sq. in. weight for weight), at 12 oz. per gallon per 200 sq. ft. of surface area (= 11.8 mg product per sq. in. weight for weight) or as a dust at 8 oz. per 100 sq. ft. of surface area (= 15.75 mg product per sq. in. weight for weight). These values are well within the range of previous acceptances for this active ingredient as discussed by Kahlil and Patterson (1986) (see review for EPA File Symbol 63380-E dated June 11, 1993), but in this case no claim for repellency is made and we have actual data demonstrating effectiveness at less than the deposit which these authors believed to be necessary for practical control (= 25.2 mg per sq. in.). This may be due to the nature of the inerts in the subject product compared to the latter product or to the fact that the subject product is used with detergents when sprayed. The claim for silverfish is acceptable on the basis of labeling for the boric acid and boron-containing compounds registration standard.

RL Vern L. McFarland, IRB