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Efficacy Review

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Data Accession No(s). 444083-01; D240581; S532940; Case#061985; AC:176

Product Mgr. No. 03-Lewis/DeLuise

Product Name(s) Astex Dust Mite Control

Company Name Protec Health International Limited

Submission Purpose Provide performance data in support of claims for acaricidal action of several months duration against house dust mites, of impregnated fabric.

Chemical & Formulation Permethrin: (3-phenoxyphenyl)methyl(+)-cis, trans-3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate*

* Cis/trans isomer ratio: 1.64%

Maximum 65%(+)-trans, (583 mgs. active per sq. m., impregnated)

Minimum 35%(+) cis

Conclusions & Recommendations The data presented in EPA Accession (MRID) Number 444083-01, having been obtained from laboratory tests conducted according to the requirements of § 95-11(b)(1)-(7) on p. 268 and meeting the standard of § 95-11(c)(2)(ii)(A)(a) on p. 270 of the Product Performance Guidelines, to the extent that fabric impregnated by application of a solution is similar to a residual spray, are adequate to demonstrate the ability of permethrin at a rate of 200 milligrams a.i. per square meter to continue to repel all motile stages of house dust mite (Dermatophagoides farinae) from impregnated fabric for up to 104 weeks (24 months). Since this experimental rate is considerably lower than the CSF for the subject product, we would expect that repellency would continue for at minimum a similar period to that investigated experimentally.

RL Vern L. McFarland, IB