

US EPA ARCHIVE DOCUMENT

EFFICACY REVIEW

DATE: IN 11-6-97 OUT 1-20-98

FILE OR REG. NO. 71012-R

PETITION OR EXP. PERMIT NO. _____

DATE DIV. RECEIVED July 29 and October 27, 1997

DATE OF SUBMISSION July 25 and October 27, 1997

DATE SUBMISSION ACCEPTED _____

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

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