

185813
RECORD NO.

059101
SHAUGHNESSEY NO.

REVIEW NO.

EEB REVIEW

DATE: IN 11-26-86 OUT 3-05-87

FILE OR REG. NO 26693-2

PETITION OR EXP. NO.

DATE OF SUBMISSION 11-17-86

DATE RECEIVED BY HED 11-25-86

RD REQUESTED COMPLETION DATE 12-10-86

EEB ESTIMATED COMPLETION DATE 12-10-86

RD ACTION CODE/TYPE OF REVIEW 300

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

DATA ACCESSION NO(S).

PRODUCT MANAGER NO. D. Edwards (12)

PRODUCT NAME(S) Killmaster II

COMPANY NAME Positive Formulators, Inc.

SUBMISSION PURPOSE Proposed registration of use on sewer
man-hole covers

SHAUGHNESSEY NO. CHEMICAL, & FORMULATION % A.I.

059101 Chlorpyrifos, (0,0-diethyl-0- 2%

(3,5,6-trichloro-2-pyridyl)

phosphorothioate)

EEB REVIEW

Killmaster II (chlorpyrifos)

100 Submission Purpose and Label Information

100.1 Submission Purpose and Pesticide Use

The registrant (Positive Formulators, Inc.) has submitted a request to amend the label for Killmaster II to allow use in sewer manholes for cockroach control. No data were submitted with this request.

100.2 Formulation Information

Active Ingredients:

Chlorpyrifos 2%

Inert Ingredients (including
petroleum solvent)..... 98%

The product contains 2.33 oz of chlorpyrifos per gallon.

100.3 Application Methods, Directions, Rates

Killmaster II should be applied as a coarse low pressure (20 psi or less) spray in 8-inch to 10-inch bands at the sewer base, midway, and upper rim flange and to the entire underside of the manhole cover. The maximum amount of Killmaster II that can be applied to each manhole shall not exceed 16 oz (one pint).

100.4 Target Organisms

Target organisms are cockroaches.

100.5 Precautionary Labeling

No fish and wildlife labeling is present on the label submitted.

101 Hazard Assessment

101.1 Discussion

The proposed label amendment would allow the use of this chlorpyrifos product in sewer manholes. A number of factors combine to limit environmental exposure from the proposed use:

1. The product is to be applied within sewer manholes; exposure to the outside environment could only be through runoff of some type;
2. Use directions indicate that drift or direct application to the sewage channel should be avoided; this eliminates a major factor in runoff potential; and,
3. According to the information submitted, this is a water-insoluble, slow-release formulation. Use directions even indicate that treated surfaces may be washed or cleaned 36 hours after application.

In view of the above factors, environmental exposure from the proposed use is expected to be minimal.

101.2 Likelihood of Adverse Effects on Nontarget Organisms

Chlorpyrifos is moderate to high in toxicity to birds and is very highly toxic to aquatic organisms. Exposure of aquatic organisms to chlorpyrifos in the 1 to 10 ppb range would represent a high hazard situation. However, as noted above, there is almost no potential for chlorpyrifos to enter the aquatic environment from the proposed use. EEB does not anticipate a hazard to nontarget organisms from this use.

101.3 Endangered Species Considerations

EEB does not anticipate that the proposed use in sewer manholes will result in exposure of any endangered/threatened species or their habitats.

101.4 Adequacy of Toxicity Data

Data in EEB files are sufficient to allow a hazard assessment for the proposed use. No additional data are required.

103 Conclusions

EEB has reviewed the proposed use of chlorpyrifos (Killmaster II) in sewer manholes. Based on the information provided in the submission package and on data in EEB files, EEB concludes that the proposed use will not result in significant hazards to nontarget organisms.

Allen W. Vaughan 3/5/87
Allen W. Vaughan, Entomologist
Ecological Effects Branch
Hazard Evaluation Division (TS-769)

Norman J. Cook 3.5.87
Norman J. Cook, Section Head
Ecological Effects Branch
Hazard Evaluation Division (TS-769)

H. T. Craven
for Michael W. Slimak, Chief
Ecological Effects Branch
Hazard Evaluation Division (TS-769)