UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

DEC 18 1989

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM:

SUBJECT: ID #929. [MRID: #412519-01] [DEB: #5909] Permethrin: Storage Stability and Corrosion Characteristics.

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THRU: Francis B. Suhre, Sec. Head
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TO: Linda DeLuise, PM #50
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The FMC Corporation, Agricultural Chemical Group, Princeton, NJ has responded to Data Call-In Notice [10/21/88] by providing Storage Stability [§63-17] and Corrosion Characteristics [§63.20] data for technical permethrin [FMC 33297],[3-phenoxybenzyl(1RS,3RS:1RS,3SR)-3-(2,2-dichloro-vinyl)-2,2-dimethylcyclo-propane-1-carboxylate],[40CFR 180.378].

Series 63: PHYSICAL AND CHEMICAL CHARACTERISTICS

§63-17 Storage Stability

Registrant: Technical permethrin stored in mini-drums at room temperature (25°C) and at 50°C showed no significant degradation following storage up to one year.

Permethrin was quantified by [redacted] Calculations were based on the response factor for each isomer. The ratio of the cis- and trans-isomers of permethrin was used as an indicator of product purity.

Representative chromatograms of the internal standard and the cis- and trans- isomers of permethrin were provided.

DEB Comment: The requirement to determine the storage stability of permethrin has been satisfied.

QUALITY CONTROL PROCEDURE INFORMATION IS NOT INCLUDED

12/22/89

§ 63-20 Corrosion Characteristics

Registrant: The corrosion characteristics were determined in combination with the storage stability studies as described under [§63-17]. The physical appearance of the permethrin samples remained unchanged, i.e., no loss of homogeneity nor discoloration was observed. Finally, a visual examination of the coated mini-drum surfaces, did not reveal any indication of corrosion such as pitting, swelling, loss of sheen, or etching.

DEB Comment: As with the storage stability studies, the corrosion characteristic requirements have been satisfied.

Conclusion and Recommendation

The product chemistry data requiremenmts for determining the storage stability and corrosion characteristics of technical permethrin have been satisfied.

CC: Reviewer;RF;SF[Permethrin];PMSD/ISB;Circulation;R.Schmitt..
RDI: FBS,12/15/89;EZ;12/18/89.
H7509C:W.Anthony;wla;CM#2;Rm.812;X557-4351;12/18/89.

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