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

MAR 3 1994

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: PP# 1F03923. Cyfluthrin dermal application on cattle.
Amendment of 2/14/94. MRID# none. Barcode D199928.
Case 281784. CBTS# 13312.

FROM: G.F. Kramer Ph.D., Chemist *[Signature]*
Tolerance Petition Section III
Chemistry Branch I, Tolerance Support
Health Effects Division (7509C)

THRU: P.V. Errico, Section Head *[Signature]*
Chemistry Branch I, Tolerance Support
Health Effects Division (7509C)

TO: George LaRocca, Product Manager
John Hebert, Team 13 Reviewer
Registration Division (7505C)

Miles Inc. previously requested tolerances for cyfluthrin (cyano (4-fluoro-3-phenoxyphenyl)methyl 3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate) on cattle tissues at 0.4 ppm and milk at 0.08 ppm. This petition is connected with the proposed registration of Bayocide Pour-On Insecticide (1% cyfluthrin) to control flies and lice on beef and dairy cattle.

CBTS recommended against this petition as a result of the following deficiencies (Memo, R. Lascola 12/13/91): 1) no dermal metabolism study was available to support this pour-on use and 2) the registrant had not determined whether cyfluthrin residues concentrate in milkfat. If residues do concentrate, a revised Section F with a proposed tolerance for milkfat would be required.

In the previous amendment (9/14/93), the registrant proposed a tolerance of 6.4 ppm based on 0.08 ppm in whole milk. The samples from which this tolerance was determined contained only 1.3% milkfat. CBTS determined that a tolerance of 2.5 ppm would be appropriate as whole milk must contain at least 3.25% milkfat (Memo, G. Kramer 11/4/93). In the current amendment, the registrant has proposed the following tolerances for cyfluthrin:



Recycled/Recyclable
Printed with Soy/Canola Ink on paper that
contains at least 50% recycled fiber

Milk -- 0.08 ppm
Milkfat -- 2.5 ppm
(reflecting 0.08 ppm in whole milk)
Meat, fat and mbp of cattle -- 0.40 ppm

RECOMMENDATION/CONCLUSIONS

Section F has been revised as requested by CBTS. However, we will withhold recommendation on these tolerance requests until after resolution of issues concerning the need for a dermal metabolism study (Memo, G. Kramer 2/2/94).

Note to PM: When these tolerances are established, they should be listed in 40 CFR § 180.436 as:

Milkfat -- 2.5 ppm
(reflecting 0.08 ppm in whole milk)
Meat, fat and mbp of cattle -- 0.40 ppm

cc: PP# 1F03923, S.F., Kramer, circ., R.F.
RDI: P.V. Errico (3/29/94), R. Loranger (3/29/94), D.F. Edwards
(3/29/94)
G.F. Kramer:804V:CM#2:(703)305-5079:7509C
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