

RENEY:rjt
12/30/68

Ney

9F0-768

Evaluation of Pesticide Petition No. 8F0680
for methoxychlor [2,2-bis(p-methoxyphenyl)-1,1,1-
trichloroethane] and other isomers and reaction products
Submitted by DuPont
Filed November 18, 1968

INTRODUCTION

The petitioner is proposing a tolerance of 1.25 ppm in milk fat, reflecting negligible residues in milk (equivalent to 0.05 ppm for whole milk of 4% butterfat content).

January 17, 1958, a zero tolerance was established in milk (FDA Reg. No. 120.120).

There are no directions for use, but a reference to USDA Summary pages 513-514 for direct dusting of dairy cattle and for use as a residual spray in dairy barns.

Reference to safety in EP No. 126 and EP No. 8F0680.

Reference to residues in EP No. 126.

DIRECTIONS FOR USE

See USDA Summary pages 513-514.

Dairy cattle (lactating) 5 gm in powdered form. Apply on the back and neck of each animal. Rub powder into hair with the hand. Repeat every 3 days, if necessary.

Dairy cattle (non-lactating) 15% dust thorough application to animals. Work dust into hair. Do not apply during lactation or within 2 wks. of freshening.

Dairy barns - 0.8 lbs./1,000 sq. ft. as residual surface spray on interior and exterior surfaces. Do not contaminate milk, feed or drinking water. Exclude dairy animals while treating barns. 2.0 oz./1,000 sq. ft. Formulated with other ingredients as a space and contact spray. Exclude dairy cattle from building before application. Do not contaminate milk, feed, or drinking water.

ANALYTICAL METHOD

Spectrophotometric and total organic chlorine. Previously evaluated with Petition No. 126. It should be noted that these old methods are out of date and that ECGC and TLC would work.

DISCUSSION OF DATA

All data is the same as in Petition No. 126.

Some of the data submitted are listed:

Time after treatment	PPM whole milk after 1st treatment	After 4th treatment
0 hours	-	0.01
12 hours	0.14	"
1 day	0.1	"
2 days	"	"
3 days	"	0.2
4 days	"	0.12
5 days	"	0.17

1 qt./animal - 18 applic. - twice a wk.

Time after treatment	PPM in whole milk			
	1st spray	9th spray	17th spray	18th spray
0 hours	-	0.1	0.1	-
12 hours	0.32	0.25	0.16	0.1
1 day	0.15	0.27	0.12	0.17
2 days	0.15	-	0.18	0.1
3 days	0.1	-	-	-
4 days	0.17	-	-	-

2 qt/animal

3

Time after treatment	Whole Milk	Cut 4% Butterfat
Pre-treat	ND	ND
1	0.18	0.18
2	0.14	0.13
3	0.10	0.11
4	-	-
5	0.05	0.05
7	0.03	0.03
14	0.02	0.02
21	0.01	0.01

CONCLUSION

Data appear to be acceptable. Again note that the method of determination is outdated. ECG or TLC may be better.

The use in dairy barns would be acceptable.

RECOMMENDATION

A favorable opinion is given.