

US EPA ARCHIVE DOCUMENT

ENVIRONMENTAL SAFETY
REVIEW SUMMARY

059901

J.W. AKERMAN ①
ECOLOGICAL EFFECTS BR.
REVIEW SUMMARY

Chemical trade WARBEX
 Common Famphur
 Chemical O,O-dimethyl O-p-(dimethylsulfamoyl)
^{phosphorothioate}
 Company CYANAMID
 Submission TEMP PERMIT 241-EXP PETITION REGISTRATION
 Date submitted Dec 20, 1974 Date received 1/28/75

Type of chemical Insecticide
 Use Control of lice on cattle
4.8% dust conc. 1800 lbs

Data submitted for review

Environmental safety:

Mammal LD50 ✓
 Mammal chronic _____
 Fish ✓
 Bird ✓
 Shrimp, crab, oyster _____
 Other _____

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Environmental chemistry (70-15)

Fish residue _____
 Other _____

Note → Same use also sub. for
 registration 241 EGT
 of w same
 comments as on temp permits

Chemical Famphur

Conclusions:

1. This is a dust (1%) used for lice control on cattle.
2. Used for self application. Bags containing the dust are located in areas frequented by cattle. Bags must be suspended to insure dusting.
3. Use does not appear to pose any environmental problems.
4. Label - "This product is toxic to fish, birds, and wildlife. Keep out of lakes, ponds, and streams. Do not apply to areas where run-off occurs. Do not contaminate water by cleaning of equipment or disposal of wastes. Apply this product only as specified on this label."

5. Milled dietary study outstanding. Quail study done on the 1% formulation (as per J. Moore request August 23, 1974).
Recommendations | A milled acute oral study has been done at Denver.

1. The environmental safety precaution, "Do not apply to areas where run-off occurs" is not appropriate for the proposed pattern of use. ~~Can use~~ This statement should be deleted.
2. ^A dietary study with the mallard duck will be required to support full registration of famphur. Suggest that such study be done with the technical material. RC 1/28/75 Jua

Chemical Famphur

Citation Cyanamid

Req. No. _____

Exp permit no. 241-EXP

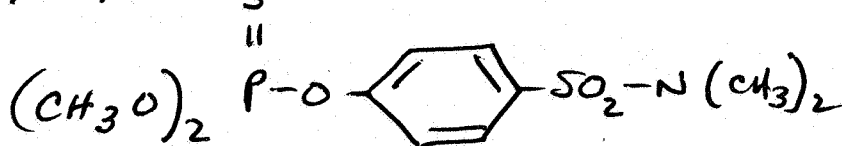
Petition no. _____

Accession NO _____

Submission date: Dec 20, 1974

Chemistry O,O-dimethyl O-p-(dimethylsulfamoyl) phenyl
phosphorothioate

Structure



Chemical characteristics

1. Molecular weight 325.3
2. Solubility Insoluble in water and hexane.
Soluble in toluene.

Formulation(s)

1% dust

Use Control of lice on cattle.

Chemical Famphur
 Division American Cyanamid

Reg No. 5
 Exp permit no. 241-EXP
 Portion no. _____
 Submission date Dec 20, 74

Accession NO _____

ORGANISM	TEST	LD ₅₀	LC ₅₀			TEST MATERIAL	
			Dietary	LC ₅₀ ^{ppm} Aquatic			
				24 hr	48 hr	96 hr	
RAT	ACUTE ORAL	1840 mg/kg					1% dust
RABBIT	ACUTE DERMAL	> 5000 mg/kg					1% dust
RAINBOW				10.4 (5.23-13.0)	6.28 (4.63-8.52)	5.27 (3.5-7.29)	1% dust No effect = 2.1
BLUEGILL				37.1 (32.0-43.0)	36.2 (31.3-41.9)	20.4 (17.5-23.9)	1% dust No effect = 15.0
BLUEGILL RAINBOW				> 24.0 < 28.0	> 21.0 < 24.0	> 18.0 < 21.0	25% conc. No effect 14.0
RAINBOW BLUEGILL				6.22 (4.88-7.94)	5.05 (3.84-6.64)	4.85 (3.68-6.40)	25% conc. No effect = 2.10
BOBWHITE QUAIL			1702 ppm (1175-2467)				1% dust
BOBWHITE * QUAIL			41 ppm (26-64)				25% dust concentrate
Mallard **			> 10,000	(30% mortality at 10,000 ppm)			1% dust
* submitted under separate letter (Dec 20, 1974) File symbol 241-ECA							
** submitted under separate letter - 3/24/75							
Mallard **	body wt gain + food consumption depressed at lowest level tested (215 ppm)		924 ppm (632-1351)				25% conc.

ENVIRONMENTAL SAFETY
DATA ABSTRACT

J. W. AKERMAN
ECOLOGICAL EFFECTS

Chemical _____

Citation _____

Reg. no. _____

Exp permit _____

Retention _____

Submission
DATE _____

Accession no. _____

ORGANISM	DOSE	SYMPTOM / EFFECT	TEST MATERIAL

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