ENVIRONMENTAL SAFETY
REVIEW SUMMARY
059901

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

Chemical trade WARBEX
Common Famphur
chemical 0,0-dimethyl 0-p-(dimethylsulfamoyl) phosphorothioate
Company CYANAMID
Submission TEMP PERMIT 241-EXP PETITION REGISTRATION
Date submitted Dec 20, 1974 Date reviewed 1/28/75

Type of chemical Insecticide
Use Control of lice on cattle
48% dust conc. 1800 lbs

Data submitted for review
Environmental safety:

Mammal LD_{50}	✓
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
obj. w same comments as on temp permit.

AKERMAN

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 ensure 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. Required dietary study outstanding. Quail study done on the 1% formulation (as per S. Moore report August 23, 1974) Mallard acute oral study has been done at Denver)

Recommendations

1. The environmental safety precaution, "Do not apply to areas where run-off occurs" is not appropriate for the proposed pattern of use. ~~Can~~ ~~may~~ This statement should be deleted.
2. ~~The~~ 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. RL 1/28/75 Jha

2 22

ENVIRONMENTAL SAFETY
DATA ABSTRACT

J.W. ACKERMAN
Ecological Effects Br

Chemical Famphur

Citation Cyanamid

Accession NO

Reg. NO.

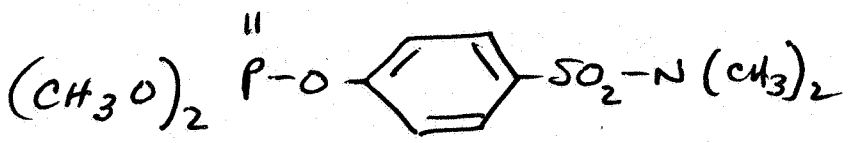
Exp permit NO. 241-EXP

Petition NO.

Submission date Dec 20, 1974

Chemistry

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



chemical characteristics

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

Formulation (s)

1% dust

Use Contral of lice on cattle.

ENVIRONMENTAL SAFETY
DATA ABSTRACT

Joe Freeman
Ecological Effects Br

Chemical – Famphur
Petition – American Cyanamid

Req No. ~~2~~
Exp permit No. 241-EXP
Petition No.
Submission date Dec 20, ~~75~~ 74

Accession No

Organism	Test	LD_{50}	LC_{50} Dietary	LC_{50} ppm Aquatic 24 hr	48 hr	96 hr	Test Material
Rat	Acute Oral	1840 mg/kg					1% dust
Rabbit	Acute Dermal	> 5000 mg/kg					1% dust
Rainbow				10.4 (8.23-13.0)	6.28 (4.63-8.52)	5.27 (3.8-7.29)	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=18.0
~~Rainbow~~ Bluegill				>24.0 <28.0	>21.0 <24.0	>18.0 <21.0	25% conc. No effect 14.0
~~Bluegill~~ Rainbow				6.22 (4.88-7.92)	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-EEA							
** 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.

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ECOLOGICAL EFFECTS

Chemical

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Petition

Submission DATE

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ORGANISM	DOSE	SYMPTOM/EFFECT	TEST MATERIAL

5-25-1