

US EPA ARCHIVE DOCUMENT

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 PC Code No: 063502
 EEB Out : JAN 24 1994

To: Kathryn Davis
 Product Manager 52
 Special Review and Reregistration Division (H7508W)

From: Anthony F. Maciorowski, Chief
 Ecological Effects Branch/EFED (H7507C)

Attached, please find the EEB review of...

Reg./File # : 063502-001202
 Chemical Name : Mineral Oil
 Type Product : Insecticide
 Product Name : _____
 Company Name : PureGro Company
 Purpose : Reregistration data
 Action Code : 627 Date Due : 01/18/94
 Reviewer : William A. Erickson

EEB Guideline/MRID Summary Table: The review in this package contains an evaluation of the following:

Gdln No.	MRID No.	Cat.	Gdln No.	MRID No.	Cat.	Gdln No.	MRID No.	Cat.
71-1(a)	417932-02	Y	72-2(a)			72-7(a)		
71-1(b)			72-2(b)			72-7(b)		
71-2(a)	417421-01	Y	72-3(a)			122-1(a)		
71-2(b)	417421-02	Y	72-3(b)			122-1(b)		
71-3			72-3(c)			122-2		
71-4(a)			72-3(d)			123-1(a)		
71-4(b)			72-3(e)			123-1(b)		
71-5(a)			72-3(f)			123-2		
71-5(b)			72-4(a)			124-1		
72-1(a)			72-4(b)			124-2		
72-1(b)			72-5			141-1		
72-1(c)			72-6			141-2		
72-1(d)						141-5		

Y=Acceptable (Study satisfied Guideline)/Concur
 P=Partial (Study partially fulfilled Guideline but additional information is needed)
 S=Supplemental (Study provided useful information but Guideline was not satisfied)
 N=Unacceptable (Study was rejected)/Nonconcur



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

JAN 24 1994

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: Mineral Oil: review of avian toxicity studies
FROM: Anthony F. Maciorowski, Chief *Maciorowski*
Ecological Effects Branch
Environmental Fate and Effects Division (H7507C)
TO: Kathryn Davis
Product Manager 52
Special Review and Reregistration Division (H7508W)

Unocal Corporation (PureGro Company) submitted the following studies to support reregistration of mineral oil:

Campbell, S., K.A. Hoxter, and G.J. Smith. 1990. 90 neutral oil: an acute oral toxicity study with the northern bobwhite. Conducted by Wildlife International Ltd., Easton, MD. Lab. Project No. 203-119. MRID No. 417932-02.

Long, R.D., J. Foster, K.A. Hoxter, and G.J. Smith. 1990. 90 neutral oil: a dietary LC₅₀ study with the mallard. Conducted by Wildlife International Ltd., Easton, MD. Lab. Project No. 203-118. MRID No. 417421-02.

Long, R.D., J. Foster, K.A. Hoxter, and G.J. Smith. 1990. 90 neutral oil: a dietary LC₅₀ study with the northern bobwhite. Conducted by Wildlife International Ltd., Easton, MD. Lab. Project No. 203-117. MRID No. 417421-01.



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These studies were evaluated by EEB and classified as follows:

Guideline No.	Test Species	%AI	Results	MRID No.	Fulfills Data Requirement?
71-1a	Bobwhite quail	99	LD ₅₀ > 2250 mg/kg NOEL = 2250 mg/kg	417932-02	Yes
71-2a,b	Bobwhite quail		LC ₅₀ > 5620 ppm NOEC = 1000 ppm	417421-01	Yes
	Mallard		LC ₅₀ > 5620 ppm NOEC = 5620 ppm	417421-02	Yes

The guideline requirements for an acute avian oral toxicity test (71-1a) and acute avian dietary toxicity tests with quail (71-2a) and mallard (71-2b) are satisfied. The LD₅₀ and LC₅₀ values classify mineral oil as practically nontoxic to mallard and bobwhite quail.

If you have any questions, please contact Bill Erickson at 305-5400/6212 or Henry Craven at 305-5320.