/4
REVIEW NO.

101201 SHAUGHNESSEY NO.

EEB BRANCH REVIEW

DA	TE: IN_	12/24/80	OUT	1/9/81			
FILE OR REG. NO	2	39-2404,-2452					
FILE OR REG. NO.							
PETITION OR EXP. PE	RMIT NO						
DATE OF SUBMISSION_		12/2/80					
DATE RECEIVED BY HE	ED	12/17/80					
RD REQUESTED COMPLE	TION DATE	2/27/81					
EEB ESTIMATED COMPLETION DATE							
RD ACTION CODE/TYPE OF REVIEW 331(239-2404)/Resubmission of amendment-new use							
		400 (239-2452)	/Data submis	sion	and the second s		
TYPE PRODUCT(S): I, D, H, F, N, R, S Insecticide							
DATA ACCESSION NO(S).							
PRODUCT MANAGER NO. W. Miller (16)							
PRODUCT NAME(S) Monitor 4 Spray							
					·		
COMPANY NAME Chevron Chemical Company							
SUBMISSION PURPOSE_	Incremen	tal risk assess	ment of prop	osed conditional	registration		
_	of celer	y use (Reply to	EEB review	of celery by sub	mission of data		
_				······································	e de la composito de la compos		
SHAUGHNESSEY NO.		CHEMICAL, & FO	ORMULATION		% A.I.		
101201	O,S-Dime	ethyl Phosphoram	idothioate		75%		
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MONITOR 4 SPRAY

100 Pesticide Label Information

100.1 Pesticide Use

An insecticide for control of leaf miners (Liriomyza Sativae) on celery in Florida.

101-102 See EEB review by N. Cook dated 8/30/78 for Monitor.

103 Toxicological Properties

See EEB review by L. Touart for Monitor dated 12/28/79 for a list of toxicity study results.

Due basic study was considered "core"; that was an aquatic invertebrate LC50 with daphnia. Two avian reproductive studies one with bobwhite the other with the mallard were also listed as "core" studies.

L. Touart, in his review on Monitor 4 dated 12/28/79, requested additional data. He also indicated that a simulated field study or field monitoring studies, could provide data that would negate concerns for unreasonable hazard.

Chevron Chemical Company responded by submitting five studies. The following is a list of those studies, their results and validation category.

Species	Test Type	Results	Category
Daphnia Magna Bluegill Sunfish Rainbow Trout Mallard Ducks Bobwhite Quail (male) (female		LC50=26ppb LC50=34ppm LC50=25ppm LC50=1302 ppm LD50=10.1 mg/kg LD50=11.0 mg/kg	•

Chevron indicated that an avian dietary study with bobwhite quail wll be forwarded upon completion, and that our suggestion for field studies is under review.

103.2 Minimum Requirements

See the attached data validation records for details on the studies listed above.

104 Hazard Assessment

As indicated in EEB's review of 12/28/79, the proposed use provides for residues which exceed chronic RPAR criteria for avian species. This, of course, equates with significant chronic risks to avian species. EEB concludes, therefore, that the proposed use provides for a significant increase in chronic risks to avian species.

107 Conclusions

107.4 Data Adequacy

The five basic studies submitted with the December 10, 1980 submission were all acceptable to support registration action.

107.5 Data Requests

One basic study, the avian dietary toxicity test (preferably with bobwhite), is still required. Chevron has indicated that this study is scheduled for completion in 1981.

The EEB requirement for field studies that could produce data to negate concern for unreasonable hazards is under review by Chevron.

107.7 Recommendations

The Ecological Effects Branch has completed a 3(c)(7) finding and recommends against concurrence with the proposed use of Monitor 4 on celery in Florida. The review by L. Touart dated 12/28/79 contains the calculations showing the estimated environmental concentrations based on the proposed application rates. The residues, as presented, exceed the chronic toxicity criteria for Rebuttable Presumption Against Registration (Sec. 162.11 (a)(3)(ii)(s)). The proposed use of Monitor 4 on celery provides for a significant increase in chronic risks to avian species in the use area. Consequently, in order to rebut this finding, pertinent field research (which shows minimal risks exist) would have to be performed.

Daniel Rieder

Wildlife Biologist

Ecological Effects Branch

norman Cwk 1/20/81

Norm Cook Head, Section 2

Ecological Effects Branch

Clayton Bushong

Chief

Ecological Effects Branch