



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

8.25.92

MEMORANDUM

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

SUBJECT: Phase IV Review for Compound 1080 in the Livestock
Protection Collar

FROM: Doug Urban, Acting Chief
Ecological Effects Branch/EFED (H7507C)

TO: Fred Betz, Acting Chief
Science Analysis and Coordination Staff/EFED

Douglas J. Urban
8/25/92

The EEB has completed a Phase IV review for Compound 1080 for use in the livestock protection collar (the only registered use). The following studies were found to be acceptable for reregistration and partially satisfy the requirement for reregistration:

1. 71-5(b) Simulated/Actual Terrestrial Field Study
(MRID# 415149-01)
2. 71-5(b) Simulated/Actual Terrestrial Field Study
(MRID# 419587-01)

Additional studies that need to be submitted to the Agency include:

1. 71-2(a) Acute Avian Dietary- Quail
2. 71-2(b) Acute avian Dietary- Duck
3. 72-1(a) Acute Fish Toxicity- Bluegill
4. 72-1(c) Acute Fish Toxicity- Rainbow
5. 72-2(a) Acute Aquatic Invertebrate Toxicity

Pending results of outstanding studies and further data relative to the monitoring being conducted on the collars use, the following studies are reserved:

1. 71-5(a) Simulated Field Study
2. 71-5(b) Actual Field Study

The data table and EEB reviews are attached.

DP Barcode : 0176340
 PC Code No : 075003
 EEB Out :
 EEB In : 03.31.92

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

From: Douglas J. Urban, Acting Chief
 Ecological Effects Branch/EFED (H7507C)

Attached, please find the EEB review of...

Reg./File # : 075003-056228
 Chemical Name : Sodium fluoroacetate
 Type Product :
 Product Name : Compound 1080
 Company Name : USDA/APHIS
 Purpose : List C, Phase II review

Action Code : 602 Date Due : 04.21.92
 Reviewer : R. Felthousen

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

LN NO	MRID NO	CAT	GDLN NO	MRID NO	CAT	GDLN NO	MRID NO	CAT
(A)			72-2(A)			72-7(A)		
71-1(B)			72-2(B)			72-7(B)		
71-2(A)			72-3(A)			122-1(A)		
71-2(B)			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)	415149-01	Y	72-3(F)			123-2		
71-5(B)	415371-01	N	72-4(A)			124-1	418354-01	N/A
72-1(A)	419587-01	Y	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)
 M=Unacceptable (Study was rejected)/Nonconcur

* This study is not applicable as it does not apply to The Livestock Prot. Collar.

PHASE IV
 DATA REQUIREMENTS FOR
 ECOLOGICAL EFFECTS BRANCH

Date:
 Case No:
 Chemical No:

Data Requirement	Composition ¹	Use Pattern	Does EPA Have Data To Satisfy This Requirement? (Yes, No)	Bibliographic Citation	Must Additional Data Be Submitted under FIFRA 3(c)(2)(B)?
6 Basic Studies in Bold					
71-1(a) Acute Avian Oral, Quail Duck					
71-1(b) Acute Avian Oral, Quail Duck (TEP)					
71-2(a) Acute Avian Diet, Quail	TGAI	C	NO		YES
71-2(b) Acute Avian Diet, Duck	TGAI	C	NO		YES
71-3 Wild Mammal Toxicity					
71-4(a) Avian Reproduction Quail					
71-4(b) Avian Reproduction Duck					
71-5(a) Simulated Terrestrial Field Study	TGAI	C	NO		RESERVED
71-5(b) Actual Terrestrial Field Study	TGAI	C	NO (PARTIAL)	{ 415149-01 } { 419587-01 }	RESERVED
72-1(a) Acute Fish Toxicity Bluegill	TGAI	C	NO		YES
72-1(b) Acute Fish Toxicity Bluegill (TEP)					
72-1(c) Acute Fish Toxicity Rainbow Trout	TGAI	C	NO		YES
72-1(d) Acute Fish Toxicity Rainbow Trout (TEP)					
72-2(a) Acute Aquatic Invertebrate Toxicity	TGAI	C	NO		YES
72-2(b) Acute Aquatic Invertebrate Toxicity (TEP)					
72-3(a) Acute Estu/Mari Tox Fish					
72-3(b) Acute Estu/Mari Tox Mollusk					
72-3(c) Acute Estu/Mari Tox Shrimp					

¹In Bibliographic Citation column indicates study may be upgradeable.

Data Requirement	Composition ¹	Use Pattern	Does EPA Have Data To Satisfy This Requirement? (Yes, No)	Bibliographic Citation	Missing Functional Data Be Submitted under FIFRA 3(c)(2)(B)?
72-3(d) Acute Estu/Mari Tox Fish (TEP)					
72-3(e) Acute Estu/Mari Tox Mollusk (TEP)					
72-3(f) Acute Estu/Mari Tox Shrimp (TEP)					
72-4(a) Early Life-Stage Fish					
72-4(b) Life-Cycle Aquatic Invertebrate					
72-5 Life-Cycle Fish					
72-6 Aquatic Org. Accumulation					
72-7(a) Simulated Aquatic Field Study					
72-7(b) Actual Aquatic Field Study					
122-1(a) Seed Germ./Seedling Emerg.					
122-1(b) Vegetative Vigor					
122-2 Aquatic Plant Growth					
123-1(a) Seed Germ./Seedling Emerg.					
123-1(b) Vegetative Vigor					
123-2 Aquatic Plant Growth					
124-1 Terrestrial Field					
124-2 Aquatic Field					
141-1 Honey Bee Acute Contact					
141-2 Honey Bee Residue on Foliage					
141-5 Field Test for Pollinators					

*In Bibliographic Citation column indicators study may be upgradable.

FOOTNOTES:

1. Composition: TGA1= Technical grade of the active ingredient; PA111A= Pure active ingredient, undiluted; TEP= Typical end-use product.

1. Composition: TGA1 = Technical grade of the active ingredient; PAIRA = Pure active ingredient, radiolabeled; TEP = Typical end-use product

2. Use Patterns: A = Terrestrial Food Crop; B = Terrestrial Non-Food Crop; C = Terrestrial Non-Food Crop; D = Aquatic Food Crop; E = Aquatic Non-Food Outdoor; F = Aquatic Non-Food Industrial; G = Aquatic Non-Food Residential; H = Greenhouse Food Crop; I = Greenhouse Non-Food Crop; J = Forestry; K = Outdoor Residential; L = Indoor Food; M = Indoor Non-Food; N = Indoor Medical; O = Indoor Residential; Z = Use Group for Site 00000

3. The registrant has requested a waiver for all ecological effects data requirements. The data is insufficient, and due to the likelihood of exposure to non target avian species, EEB can not concede to all of these waivers, therefore, 71-1(e), 72-2(a) and 72-2(b) are required at this time.

~~A:~~ Due to the limited exposure to aquatic species, EEB is agreeing to the waiver request at this time, therefore, these tests are not required.