



9-26-91

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

SEP 26 1991

MEMORANDUM

OFFICE OF
PESTICIDES AND TOXIC
SUBSTANCES

SUBJECT: Aquatic Phase IV Data

FROM: Douglas Urban, Acting Chief
Ecological Effects Branch
Environmental Fate and Effects Division (H7507C) 9/24/91

TO: Amy Rispin, Chief
Science Analysis and Coordination Staff
Environmental Fate and Effects Division (H7507C)

EEB has reviewed one freshwater aquatic invertebrate study in support of reregistration for Methyl isothiocyanate (MITC). This study indicated that MITC was very highly toxic to Daphnia magna with an LC_{50} of 55 ppb based on mean measured concentrations. This study was found acceptable in support of reregistration.



DP BARCODE: D167777

REREG CASE # 2405

CASE: 809333
SUBMISSION: S401175

DATA PACKAGE RECORD
BEAN SHEET

DATE: 09/24/91
Page 1 of 1

* * * CASE/SUBMISSION INFORMATION * * *

CASE TYPE: REREGISTRATION ACTION: 606 DATA PACKAGE REVIEW
CHEMICALS: 068103 Methyl isothiocyanate

ID#: 068103-045639

COMPANY: 045639 NOR-AM CHEMICAL COMPANY

PRODUCT MANAGER: 51 BARBARA BRISCOE

703-308-8065 ROOM: CS1 3H3

PM TEAM REVIEWER: BETTY CROMPTON

703-308-8067 ROOM: CS1 4L5

RECEIVED DATE: 03/22/91 DUE OUT DATE: / /

* * * DATA PACKAGE INFORMATION * * *

DP BARCODE: 167777 EXPEDITE: N DATE SENT: 08/20/91 DATE RET.: / /

CHEMICAL: 068103 Methyl isothiocyanate

DP TYPE: 101 Phase IV Review

ADMIN DUE DATE: 10/29/91

CSF: N

LABEL: N

ASSIGNED TO	DATE IN	DATE OUT
DIV : EFED	08/21/91	/ /
BRAN: EEB	/ /	09/24/91
SECT: RS2	/ /	/ /
REVR : CLAIRD	/ /	/ /
CONTR:	/ /	/ /

* * * DATA REVIEW INSTRUCTIONS * * *

For the attached reregistration case, please indicate
whether this study satisfies the requirements specified.
MRID #41819302

* * * ADDITIONAL DATA PACKAGES FOR THIS SUBMISSION * * *

DP BC	BRANCH/SECTION	DATE OUT	DUE BACK	INS	CSF	LABEL
167776	RSCB	08/20/91	10/29/91	Y	N	N

 * ECOLOGICAL EFFECTS BRANCH DATA REQUIREMENTS *

Case No.: 2405

Date: 2-5-91

Chemical: Methyl Isothiocyanate

Chemical No: 68103

Use Patterns: SOIL FUMIGANT / WOOD TREATMENT

Reviewers Name: Dennis J. McLane

Telephone No.: 557-1993

GUIDELINES NO./STUDY TYPE	DATA REQUIREMENT FULFILLED (R-reserved; NR-not required; Y/N)	MRIDs/DATES
71-1(a) Acute Avian Oral, Quail/Duck	NR	00119180 4-77
71-1(b) Acute Avian Oral, Quail/Duck (TEP)	NR	00119184 7-77
71-2(a) Acute Avian Diet/Quail	NR	00119182 7-77
71-2(b) Acute Avian Diet/Duck		
71-3 Wild Mammal Toxicity		
71-4(a) Avian Reproduction/Quail		
71-4(b) Avian Reproduction/Duck		
71-5(a) Simulated Terrestrial Field		
71-5(b) Actual Terrestrial Field	R	---
72-1(a) Acute Fish/Bluegill	N	---
72-1(b) Acute Fish/Bluegill (TEP)		
72-1(c) Acute Fish/Rainbow Trout	N	---
72-1(d) Acute Fish/Rainbow Trout (TEP)		
72-2(a) Acute Aquatic Invertebrate 9-18-91	CEL X Y	418193-02
72-2(b) Acute Aquatic Invertebrate (TEP)		

72-3(a) Acute Estu/Mari Fish	R	---
72-3(b) Acute Estu/Mari Mollusk	R	---
72-3(c) Acute Estu/Mari Shrimp	R	---
72-3(d) Acute Estu/Mari Fish(TEP)		
72-3(e) Acute Estu/Mari Mollusk(TEP)		
72-3(f) Acute Estu/Mari Shrimp(TEP)		
72-4(a) Early Life-Stage Fish	R	
72-4(b) Life-Cycle Aquatic Invertebrate	R	
72-5 Life-Cycle Fish		
72-6 Aquatic Org. Accumulation		
72-7(a) Simulated Aquatic Field Study	R	---
72-7(b) Actual Aquatic Field Study		
122-1(a) Seed Germ./Seedling Emerg.	N	---
122-1(b) Vegetative Vigor	N	---
122-2 Aquatic Plant Growth	N*	---
123-1(a) Seed Germ./Seedling Emerg.		
123-1(b) Vegetative Vigor		
123-2 Aquatic Growth		
124-1 Terrestrial Field		
124-2 Aquatic Plant Growth		
141-1 Honey Bee Acute Contact		
141-2 Honey Bee Residue on Foliage		
141-5 Field Test for Pollinators		

*This test is to be performed with freshwater green alga
Selenastrum capricornutum

Methyl Isothiocyanate

008103

9-18-91

Date:

Case No:

Chemical No:

PHASE IV
DATA REQUIREMENTS FOR
ECOLOGICAL EFFECTS BRANCH

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		A, B, C, D	No	00119180 4-77	
71-1(b) Acute Avian Oral, Quail Duck (TEP)					
71-2(a) Acute Avian Diet, Quail					
71-2(b) Acute Avian Diet, Duck					
71-3 Wild Mammal Toxicity					
71-4(a) Avian Reproduction Quail					
71-4(b) Avian Reproduction Duck					
71-5(a) Simulated Terrestrial Field Study					
71-5(b) Actual Terrestrial Field Study					
72-1(a) Acute Fish Toxicity Bluegill					
72-1(b) Acute Fish Toxicity Bluegill (TEP)					
72-1(c) Acute Fish Toxicity Rainbow Trout					
72-1(d) Acute Fish Toxicity Rainbow Trout (TEP)					
72-2(a) Acute Aquatic Invertebrate Toxicity <i>Soyl Fumigant / Wood treatment</i>		A, B, C, D	Yes	4118193-02	N
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.