

US EPA ARCHIVE DOCUMENT

5-26-94
EEB files

DP Barcode : D194650
PC Code No : 068103
EEB Out : MAY 26 1994

To: Virginia Dietrich
Product Manager 51
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 # : 068103-054289
Chemical Name : Methyl Isothiocyanate
Type Product : biocide
Product Name :
Company Name : Degussa Corp
Purpose : Review aquatic studies.

Action Code: 627
Reviewer: Dennis McLane

Date Due: 11/30/93

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)			72-2(A)	41819302	Y	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)			72-3(F)			123-2		
71-5(B)			72-4(A)			124-1		
72-1(A)	42058001	Y	72-4(B)			124-2		
72-1(B)			72-5			141-1		
72-1(C)	42058002	Y	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

DP BARCODE: D194650

REREG CASE # 2405

CASE: 809334
SUBMISSION: S447093

DATA PACKAGE RECORD
BEAN SHEET

DATE: 09/01/93
Page 1 of 1

* * * CASE/SUBMISSION INFORMATION * * *

CASE TYPE: REREGISTRATION ACTION: 627 GENERIC DATA SUBMISSION
CHEMICALS: 068103 Methyl isothiocyanate 100.00 %

ID#: 068103-054289
COMPANY: 054289 DEGUSSA CORP
PRODUCT MANAGER: 51 VIRGINIA DIETRICH 703-308-8157 ROOM: CS1 4L5
PM TEAM REVIEWER: LEONARD RYAN 703-308-8072 ROOM: CS1 3M1
RECEIVED DATE: 09/01/93 DUE OUT DATE: 11/30/93

* * * DATA PACKAGE INFORMATION * * *

DP BARCODE: 194650 EXPEDITE: N DATE SENT: 09/01/93 DATE RET.: / /
CHEMICAL: 068103 Methyl isothiocyanate
DP TYPE: 999 Miscellaneous Data Package

ASSIGNED TO	CSF:	DATE IN	DATE OUT	ADMIN DUE DATE: 11/30/93
DIV : EFED		09/01/93	/ /	NEGOT DATE: 11/30/93
BRAN: EEB		9/10/93	5/26/94	PROJ DATE: / /
SECT:		/ /	/ /	
REVR :		/ /	/ /	
CONTR:		/ /	/ /	

* * * DATA REVIEW INSTRUCTIONS * * *

Please review these studies for Guidelines:

- 72-1(a) MRID# 42058001
- 72-1(c) MRID# 42058002
- 72-2(a) MRID# 41819202

Please review them for Methyl Isothiocyanate.
If you have any questions please contact Leonard Ryan at
308-8072
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* * * DATA PACKAGE EVALUATION * * *

No evaluation is written for this data package.

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

DP BC	BRANCH/SECTION	DATE OUT	DUE BACK	INS	CSF	LABEL
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

MAY 26 1994

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

MEMORANDUM

Subject: Ecological Effects Review of MITC Acute Aquatic Studies

From: Anthony F. Maciorowski, Chief
Ecological Effects Branch
Environmental Fate and Effects Division (H7507C) *5/24/94*

To: Leonard Ryan, Team 51, Reviewer
Special Review and Reregistration Division (H7508W)

Nor-Am Chemical has submitted these studies in connection with reregistration process for methyl isothiocyanate.

The subject studies (MRID Nos. 42058001, for 72-1(a), bluegill sunfish; 42058002 for 72-1(c), Rainbow trout; and 418193 for 72-2(a), *Daphnia magna*) have previously been reviewed and found to fulfill the guideline requirements. Ecological Effects Branch reviewed MRID Nos. 42058001 and 42058002 and reported the results of the review in a memorandum to Barbara Briscoe, PM 51, dated January 23, 1992. The following table is from that correspondence:

Guide. Ref. #	Test Species	% a.i.	Test Type	Test Result	Study Status	MRID No.
72-1(a)	<i>Lepomis macrochirus</i>	94.9	Acute Flow Through	LC ₅₀ = 142 µg/L	Core	420580-01
72-1(c)	<i>Oncorhynchus mykiss</i>	94.9	Acute Flow Through	LD ₅₀ = 94 µg/L	Core	420580-02

The remaining study was 72-2(a), *Daphnia magna*, was reviewed and attached to a Ecological Effects Branch review dated September 18, 1991. The Data Evaluation Record made the following conclusions:

"This study indicates MITC is very highly toxic to *Daphnia magna* with an LC₅₀ of 55 ppb. This study does not fulfill the requirement in support of registration for a freshwater invertebrate."



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Based on this these studies are adequate and fulfill the reregistration data requirements.

Please contact Dennis J. McLane (305-5096) if you have any further questions.

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