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:

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<tr>
<th>GDLN NO</th>
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</table>

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
DATA PACKAGE RECORD

CASE: 809334
SUBMISSION: S447093

DATE: 09/01/93

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
PM TEAM REVIEWER: LEONARD RYAN
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:
DIV: EFED
BRAN: EEB
SECT: / /
REVR: / /
CONTR: / /

DATE IN: 09/01/93
DATE OUT: 5/26/94
ADMIN DUE DATE: 11/30/93
NEGOT DATE: 11/30/93

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
308-808-

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
MEMORANDUM

Subject: Ecological Effects Review of MITC Acute Aquatic Studies

From: Anthony F. Maciorowski, Chief  
Ecological Effects Branch 
Environmental Fate and Effects Division (H7507C)

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:

<table>
<thead>
<tr>
<th>Guide. Ref. #</th>
<th>Test Species</th>
<th>% a.i.</th>
<th>Test Type</th>
<th>Test Result</th>
<th>Study Status</th>
<th>MRID No.</th>
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<td>Lepomis macrochirrus</td>
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<td>Acute Flow Through</td>
<td>LC50 = 142</td>
<td>Core</td>
<td>420580 -01</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>µg/L</td>
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<td>72-1(c)</td>
<td>Oncorhynchus mykiss</td>
<td>94.9</td>
<td>Acute Flow Through</td>
<td>LD50 = 94</td>
<td>Core</td>
<td>420580 -02</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>µg/L</td>
<td></td>
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</tbody>
</table>

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."

Recycled/Recyclable  
Printed with Soy/Canola ink on paper that contains at least 50% recycled fiber
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.