

US EPA ARCHIVE DOCUMENT

DP Barcode : D185112
 PC Code No : 107401
 EEB Out : MAY 6 1993

To: Bruce Sidwell
 Product Manager
 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 # : 107401

Chemical Name : 3-(Trimethoxysilyl)propyl dimethyl octadecyl ammonium

Type Product : Microbiocide

Product Name : O9-5700

Company Name : Dow Corning

Purpose : Phase IV: Identification of data requirements

Action Code : 602
 : Tom A. Bailey

Date Due : 04/30/93 Reviewer

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)			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)			72-4(B)			124-2		
72-1(B)			72-5			141-1		

DP BARCODE: D185112

REREG CASE # 3148

CASE: 819411
SUBMISSION: S430115

DATA PACKAGE RECORD
BEAN SHEET

DATE: 12/01/92
Page 1 of 1

*** CASE/SUBMISSION INFORMATION ***

CASE TYPE: REREGISTRATION ACTION: 602 PHASE 3 RESPONSE SUBMIS.
CHEMICALS: 107401 Trimethoxysilyl)propyl dimethyl octadecyl ammonium 100.00 *

ID#: 107401

COMPANY:

PRODUCT MANAGER: 53 BRUCE SIDWELL 703-308-8078 ROOM: CS1 3E3
PM TEAM REVIEWER: MARGARITA COLLANTES 703-308-8583 ROOM: CS1 3A2
RECEIVED DATE: 07/24/90 DUE OUT DATE: 10/22/90

*** DATA PACKAGE INFORMATION ***

DP BARCODE: 185112 EXPEDITE: N DATE SENT: 12/01/92 DATE RET.: / /
CHEMICAL: 107401 Trimethoxysilyl)propyl dimethyl octadecyl ammonium chloride
DP TYPE: 101 Phase IV Review

ADMIN DUE DATE: 02/09/93 CSF: N LABEL: N

ASSIGNED TO	DATE IN	DATE OUT
DIV : EFED	12/04/92	/ /
BRAN: EEB	12/08/92	/ /
SECT:	/ /	/ /
REVR :	/ /	/ /
CONTR:	/ /	/ /

*** DATA REVIEW INSTRUCTIONS ***

For the attached reregistration case 3148, please identify all applicable data requirements and note those for which adequate data have not been submitted to the Agency.

Please review the attached documents submitted in support of Phase 3 Submission - Phase 4 Review:

1. LUIS Report Chem# 107401 (Updated LUIS will be forwarded. No new uses or sites anticipated)
2. Phase 3 Response Worksheet MRID 93218000
3. Correspondence
4. Phase 2 Draft Addendum

MRID#	GDLN	MRID#	GDLN
93218033✓	71-1	93218005✓	71-1
93218006✓	71-2	93218034✓	71-2✓
93218035✓	72-1✓	93218007✓	72-1(a & c)✓
93218037✓	72-2✓	93218009✓	72-2✓
40385218✓	71-1(a)	40385217✓	71-2
40385202✓	72-1(a)	426701608✓	72-1(c)✓

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

DP BC	BRANCH/SECTION	DATE OUT	DUE BACK	INS	CSF	LABEL
185106	RSB	12/01/92	02/09/93	Y	Y	N
185108	SACS	12/01/92	02/09/93	Y	N	N

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DP BARCODE: D185111

REREG CASE # 3148

CASE: 819411
SUBMISSION: S430115

DATA PACKAGE RECORD
BEAN SHEET

DATE: 12/01/92
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* * * ADDITIONAL DATA PACKAGES FOR THIS SUBMISSION * * *

DP BC	BRANCH/SECTION	DATE OUT	DUE BACK	INS	CSF	LABEL
185111	EFGB	12/01/92	02/07/93	Y	N	N
185116	CCB	12/01/92	02/09/93	Y	N	N
185117	OREB	12/01/92	02/09/93	Y	N	N
185118	TB-2	12/01/92	02/09/93	Y	N	N

3.



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

MAY 6 1993

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: PHASE IV For 3-(Trimethoxysilyl)-propyl Dimethyl-Octadecyl Ammonium Chloride

FROM: *for* Anthony F. Maciorowski, Chief
Ecological Effects Branch
Environmental Fate and Effects Division

Douglas J. Moran

TO: Bruce Sidwell
Product Manager 53
Special Review and Reregistration Division

The Ecological Effects Branch has completed the requested Phase IV review of data and related actions for the microbiocide, 3-(Trimethoxysilyl)-propyl Dimethyl-Octadecyl Ammonium Chloride. Industrial microbiocides, which are covered by NPDES permits, have four data requirements for an indoor food/non-food use registration:

- a) Avian acute oral LD50 study using waterfowl or upland gamebird.
- b) Avian acute dietary LC50 study using waterfowl or upland gamebird.
- c) Acute fish toxicity study using either rainbow trout or bluegill.
- d) Acute invertebrate toxicity study using Daphnia.

The EEB reviewed four studies needed to fulfill guideline requirements 71-1, 71-2, 72-1, and 72-2. The specific studies are listed below.

1. Beavers, J.B. and R. Fink. 1981. Eight-day Dietary LC50 - Mallard Duck. Project No. 103-205. Performed by Wildlife International Ltd., St. Michaels, MD. Submitted by Dow Corning Corporation, Midland, MI. EPA MRID No. 403852-17.

Date: 04/28/93
 Case No: 3148
 Chemical No: 107401

PHASE IV
 DATA REQUIREMENTS FOR
 ECOLOGICAL EFFECTS BRANCH

Data Requirements	Composition	Use Pattern ²	Does EPA Have Data To Satisfy This Requirement? (Yes, No)	Bibliographic Citation	Must Additional Data Be Submitted under FIFRA3(c)(2) (B)?
6 Basic Studies in Bold					
71-1(a) Acute Avian Oral, Quail/Duck	(TGAI)	M	YES ³	403852-18	NO
71-1(b) Acute Avian Oral, Quail/Duck	(TEP)	-	-	-	-
71-2(a) Acute Avian Diet, Quail	(TGAI)	-	-	-	-
71-2(b) Acute Avian Diet, Duck	(TGAI)	M	YES ³	403852-17	NO
71-3 Wild Mammal Toxicity	(TGAI)	-	-	-	-
71-4(a) Avian Reproduction Quail	(TGAI)	-	-	-	-
71-4(b) Avian Reproduction Duck	(TGAI)	-	-	-	-
71-5(a) Simulated Terrestrial Field Study	(TEP)	-	-	-	-
71-5(b) Actual Terrestrial Field Study	(TEP)	-	-	-	-
72-1(a) Acute Fish Toxicity Bluegill	(TGAI)	-	-	-	-
72-1(b) Acute Fish Toxicity Bluegill	(TEP)	-	-	-	-
72-1(c) Acute Fish Toxicity Rainbow Trout	(TGAI)	M	NO	-	YES
72-1(d) Acute Fish Toxicity Rainbow Trout	(TEP)	-	-	-	-
72-2(a) Acute Aquatic Invertebrate Toxicity	(TGAI)	M	NO	-	YES
72-2(b) Acute Aquatic Invertebrate Toxicity	(TEP)	-	-	-	-
72-3(a) Acute Estu/Mari Tox Fish	(TGAI)	-	-	-	-
72-3(b) Acute Estu/Mari Tox Mollusk	(TGAI)	-	-	-	-
72-3(c) Acute Estu.Mari Tox Shrimp	(TGAI)	-	-	-	-

Date: 04/28/93
Case No: 3148
Chemical No: 107401

PHASE IV
DATA REQUIREMENTS FOR
ECOLOGICAL EFFECTS BRANCH

Data Requirements	Composition	Use Pattern ²	Does EPA Have Data To Satisfy This Requirement ? (Yes, No)	Bibliographic Citation	Must Additional Data Be Submitted under FIFRA3(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	(TGAI)	-	-	-	-
72-4(b) Live-Cycle Aquatic Invertebrate	(TGAI)	-	-	-	-
72-5 Life-Cycle Fish	(TGAI)	-	-	-	-
72-6 Aquatic Org. Accumulation	(TGAI)	-	-	-	-
72-7(a) Simulated Aquatic Field Study	(TEP)	-	-	-	-
72-7(b) Actual Aquatic Field Study	(TEP)	-	-	-	-
122-1(a) Seed Germ./Seedling Emerg.	(TGAI)	-	-	-	-
122-1(b) Vegetative Vigor	(TGAI)	-	-	-	-
122-2 Aquatic Plant Growth	(TGAI)	-	-	-	-
123-1(a) Seed Germ./Seedling Emerg.	(TGAI)	-	-	-	-
123-1(b) Vegetative Vigor	(TGAI)	-	-	-	-
123-2 Aquatic Plant Growth	(TGAI)	-	-	-	-
124-1 Terrestrial Field Study	(TEP)	-	-	-	-
124-2 Aquatic Field Study	(TEP)	-	-	-	-
141-1 Honey Bee Acute Contact	(TGAI)	-	-	-	-
141-2 Honey Bee Residue on Foliage	(TEP)	-	-	-	-
141-5 Field Test for Pollinators	(TEP)	-	-	-	-

1.Composition: TGAI=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 Feed 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.If the use is expanded to outdoor use patterns, these studies would not support those uses. Therefore the studies would have to be repeated.