Monsanto

FROM (NAME & LOCATION): B2SK Cole Weber

December 17, 1975

SUBJECT:

REFERENCE:

TO :
D. L. Sliney
C. Paton
D. Wood
J. J. Zeman
W. C. Hammann
M. E. Gibbs
G. J. Levinskas
P. L. Wright
R. A. Pohl
R. E. Beal

Attached is a copy of the data Bob Potter requested on MCS 1238.

Cole cs
Cole Weber

cs
Att.

DSW 185374

STLCOPCB4051620

Monsanto

FROM (NAME & LOCATION): B2SK Cole Weber

DATE: December 17, 1975

SUBJECT: MCS 1238
Environmental Assessment

REFERENCE:

TO : R. G. Potter

MCS 1238 vs. Dow's XFS 4169L

Summary

Only real difference between Dow's data and Monsanto's data is that Dow has completed a 90-day feeding study in rats and we have only completed a 30-day study. Our 90-day study will be completed in July 76 on both components that make up MCS 1238.

Over half of Dow's presentation is devoted to explaining their approach to environmental compatibility assessment of Dow's products. Monsanto has the same presentation in our guide "Safety and Environmental Compatibility Assessment of Monsanto Products". I recommend give this to General Electric.

Cole Weber

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Study	Material	Projected Date For Receipt of Final Report
8-day LC50 Bobwhite quail	MCS 1045	3/76
"	MCS 1302	3/76
"	MCS 1238	3/76
8-day LC50 Mallard ducks	MCS 1045	3/76
"	MCS 1302	3/76
"	MCS 1238	3/76
Chick Edema Factor Bioassay	MCS 1238	2/76
Microbial Mutagenic Plate Assay	MCS 1045	3/76
"	MCS 1302	3/76
"	MCS 1238	3/76
Mouse Lymphoma Mutagenicity	MCS 1238	3/76
Rat Teratogenicity	MCS 1238	3/76
Human Skin Patch Test	MCS 1045	3/76
"	MCS 1302	3/76
"	MCS 1238	3/77
4-wk. Inhalation Study	MCS 1045	4/76
"	MCS 1302	4/76
90-day Rat Feeding	MCS 1045	completed
"	MCS 1302	7/76
"	MCS 1238	7/77
2-yr. Rat Feeding	MCS 1045	4/78
"	MCS 1302	4/78
"	MCS 1238	6/79
6-month Inhalation	MCS 1045	1/78
"	MCS 1302	1/78
^{14}C Metabolism Rat	MCS 1045	6/76*
"	MCS 1302	6/76*
^{14}C Fish Residue	MCS 1045	7/76*
"	MCS 1302	7/76*

*Requires ^{14}C-labeled materials available 3/1/76

Biodegradation Studies (In-House)

River Die-Away	MCS 1045	
"	MCS 1302	
Aquatic Organisms	MCS 1045	
"	MCS 1302	
$^{14}CO_2$ Evolution Studies	MCS 1045	
"	MCS 1302	

MCS 1045 - (MIPB)
MCS 1302 - (TXS)

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HEALTH & ENVIRONMENTAL ASSESSMENT

Study	MCS 1238	Dow XFS-4169L
Acute Test		
Oral (Rat) LD-50)	✓	✓
Skin - Rabbit		
Irritation	✓	✓
Absorption (LD-50)	✓	✓
Chloracnegenic	Not Required	
	No chlorine in prod.	✓
Eye Irritation Rabbit	✓	✓
Vapor Inhalation	✓	✓
Microbial Mutagenicity (Ames Test)	3/76	✓
Sub Acute 90 day feeding study rats		
MIPB	✓	
TXS	7/76*	
1238	7/77* (Tie in to 2-yr. feeding study)	✓

*30 day feeding study in conjunction with bioconcentration test completed

Bio Accumulation - Rats	✓	✓
Toxicity - Aquatic Organisms		
96 hr. LC-50 Bluegill	✓	
96 hr. LC-50 Trout	✓	
96 hr. LC-50 Fathead Minnows		✓
15 day continuous flow (Fathead Minnows)		✓
Biodegradability Tests		
Biochemical Oxygen Demand	---	✓
Sludge oxygen uptake	*	✓
CO_2 Formation	✓	✓
96 hour sludge test	*	
Semi-continuous activated sludge test (SCAS)	✓	

*Not a relevant test - SCAS Test is recognized as better test

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