



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

011774

1/31/96

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

MEMORANDUM

January 22, 1996

SUBJECT: 041701. Fonofos (Dyfonate®). Re-evaluation of the Eye Irritation Study

PC Code 041701  
DP Barcode N/A  
MRID No. 00078777

Tox. Chem. No. 454B  
Reregistration Case No. 0105

TO: Health Effects Division Files

FROM: Pamela M. Hurley, Toxicologist  
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*Pamela M. Hurley*  
1/22/96

THRU: Roger L. Gardner, Section Head  
Section I, Toxicology Branch I  
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*Roger Gardner*  
1/22/96  
1/23/96

In writing the Toxicology Chapter for the RED on fonofos, a discrepancy was observed in the assignment of the toxicity category for the eye irritation study on the technical material. Although the results of the study classify the material as non-irritating, one rabbit had a score of 2 at 24 hours. This score decreased to 0 by 48 hours. According to the Toxicity Category chart, any reaction at 24 hours that clears within 7 days or less should be assigned to toxicity category III. In addition, due to the extreme acute toxicity of fonofos, a dose of 0.01 ml was used instead of the customary 0.1 ml, which kills the animals. This smaller dose is more likely to give a response that is somewhat less than the usual dose. Therefore, the toxicity category for the primary eye irritation study conducted with technical fonofos (MRID 00078777) is changed from IV to III.

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TOX ONELINERS

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CASWELL#: 454B  
CAS-REG#: 944-22-9

P.C. CODE 041701- O-Ethyl-S-phenyl ethylphosphonodithioate

FILE LAST PRINTED: 06/20/94

CITATION	MATERIAL	ACCESSION/ MRID NO.	RESULTS	TOX CAT	COREGRADE/ DOCUMENT#
81-4 Primary eye irritation Species: rabbit Stauffer Chemical T-6461; 2/12/79	Dyfonate 95.4%	245491 0007877	Negative for 0.01 ml 0/6 dead. (required dose - 0.1 ml). <i>Update</i> <i>had score of 2</i> <i>at 24 hours.</i>	3	Minimum 001000
81-4 Primary eye irritation Species: rabbit	Dyfonate 10G tech.		Iritis and pannus formation; half of the animals died within 24 hrs.		000629
81-4 Primary eye irritation Species: rabbit Stauffer Chemical T-989; 8/2/66	Dyfonate 10G, 10.12% granular		Negligible irritation (10 mg). No systemic signs noted.		000628
81-4 Primary eye irritation Species: rabbit Stauffer Chemical T-991; 9/16/66	Dyfonate 10G 11.35% granular		Mild irritation. 1/6 appeared fluorescein positive.		000628
81-4 Primary eye irritation Species: rabbit Stauffer Chemical T-990; 7/25/66	Dyfonate 4E		Some ocular irritation. All animals died within 24 hrs.		000628
81-5 Primary dermal irritation Species: rabbit Internatl. Res. and Develop. Co 153-047; 5/20/77	Dyfonate 93% tech with Aliquat 336	00059856	All animals died within 24 hrs following a 0.5 ml application.	1	Minimum 000625
81-5 Primary dermal irritation Species: rabbit Stauffer Chemical T-6461; 2/12/79	Dyfonate 95.4%	245491 0007877	negative for 0.05 ml, 2/6 dead. (required dose - 0.5 ml > dermal LD50).	4	Minimum 001000

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