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# GLYPHOSATE / TOX

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

MAR 19 1985

## MEMORANDUM

OFFICE OF  
PESTICIDES AND TOXIC SUBSTANCES

SUBJECT: Glyphosate: EPA Reg. #: 524-308; Registrant's  
response to review of mutagenicity study  
Caswell #: 661A

TO: Robert Taylor  
Product Manager (25)  
Registration Division (TS-767)

THRU: Robert P. Zendzian, Ph.D. *RPZ 3/18/85*  
Acting Head, Review Section IV  
Toxicology Branch  
Hazard Evaluation Division (TS-769)

FROM: William Dykstra, Ph.D. *William Dykstra 3/12/85*  
Toxicology Branch *3/19/85*  
Hazard Evaluation Division (TS-769)

### Recommendations:

1. The letter from Monsanto dated November 26, 1984 adequately addresses the Toxicology Branch review. The Toxicology Branch review of the in vivo bone marrow cytogenetics study of glyphosate in Sprague-Dawley rats stated that the study was unacceptable since dose-response data were not available (only a single dose) and concurrent cytotoxicity data were not available. The study number was ML-83-236.

Monsanto states in their letter that the range finding study was conducted at 200-1000 mg/kg. No cytotoxicity was produced in the range-finding study and, therefore, the single dose level of 1000 mg/kg was used.

Therefore, the study is acceptable since the previous basis of evaluation has been adequately addressed.

### Review:

1. No new toxicity data were submitted.
2. A copy of the previous review is attached.

Attachment

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