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

OFFICE OF  
PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

March 27, 1987

SUBJECT: Avermectin B<sub>1</sub>, Dermal Absorption

TO: Edwin Budd, Head  
Review Section II  
Toxicology Branch

FROM:  7-15-87  
Robert P. Zendzian PhD  
Pharmacologist  
Mission Support Staff  
Toxicology Branch  
HED (TS-769)

Based on the data submitted by the Registrant, Merk, one may reasonably conclude that the maximum dermal absorption of Avermectin B<sub>1</sub> is one percent of the applied dose.

A meeting was held in Dr. Farber's office on March 27, 1987 at 9:00 A.M. with representatives of Mecck Sharp & Dohme concerning the dermal absorption of Avermectin B<sub>1</sub>. The Registrant presented information on the dermal absorption, physical properties, metabolism and relative acute oral/dermal toxicity of Avermectin B<sub>1</sub> (copy attached). The Registrant concluded that this information justified accepting a value of one percent as the maximum of Avermectin B<sub>1</sub>. I agree with this conclusion.

V  
3H