



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

FEB 24 1994

MEMORANDUM

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

SUBJECT: Hydramethylnon (Amdro); Maxforce Roach Control Gel; ID #: 064248-00005; P.C. Code 118401; Dermal Penetration Study

Tox.Chem No.: 642AB
MRID No.: 42989101
DP Barcode No.: D196429
Submission No.: S452375

TO: George LaRocca, PM #13
Insecticide-Rodenticide Branch
Registration Division (H7505C)

FROM: William Dykstra, Ph.D., Toxicologist
Review Section I
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William Dykstra 11/3/94

THRU: Roger Gardner, Section Head, Toxicologist
Review Section I
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Health Effects Division (H7509C)

Roger Gardner 2/8/94 *KR 2/22/94*

ACTION REQUESTED: The Registrant, The Clorox Company, has submitted a dermal penetration study with Hydramethylnon entitled "Hydramethylnon: Pharmacokinetics and Material Balance Study Following Cutaneous Administration to Male Sprague Dawley Rats". Toxicology Branch-I (TB-I) has been requested to review this study and determine the dermal penetration of Hydramethylnon.



CONCLUSIONS: The study was reviewed by Dr. Robert Zendzian, Senior Pharmacologist, and found to be acceptable. Maxforce Gel Formulation (2% hydramethylnon), at a 2 gram nominal dose, was applied to 10 cm² area on the shaved back of male rats (4/group). The application site was washed at 10 hours and groups terminated at 10 and 24 hr, and at 7 and 14 days. Absorption of hydramethylnon was 0.414, 0.861, 0.413, and 0.587% at 10 hr, 24 hr, 7 days, and 14 days, respectively. At these same times, skin residue was 0.902, 0.926, 0.215, and 0.039%, respectively.