



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

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OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: Amdro - PP#2F2609 - Quantitative Risk Assessment
for Amdro in/on Sugarcane and Pineapples in Hawaii

Caswell No.: 642AB
Project No.: 8-0162
Record No.: 206447

FROM: William G. Dykstra
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Hazard Evaluation Division (TS-769C)

William Dykstra
11/17/87

TO: George T. LaRocca, PM 15
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and

Residue Chemistry Branch
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THRU: Edwin R. Budd, Section Head
Review Section II, Toxicology Branch
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Sheet for E.R. Budd
11/17/87
M. F. W. H. S.
11/17/87

Amdro has been classified as a B₂ carcinogen by the Toxicity Branch Peer Review Committee. The Q₁* is 1.1 (mg/kg/day)⁻¹ based on female mouse lung tumors and the Weibull time-to-tumor model (attached).

This risk assessment is for a dietary worst case exposure scenario for sugarcane and pineapple uses in Hawaii.

It is based on the anticipated residue contributions (ARC) provided by the TAS analysis which incorporates the percent of crops treated in Hawaii (attached).

<u>POPULATION SUBGROUP</u>	<u>ARC</u> <u>(mg/kg/day)</u>	<u>Dietary Risk</u>
U.S. POPULATION - 48 STATES	0.000003	3.3 x 10 ⁻⁶
U.S. POPULATION - SPRING SEASON	0.000003	3.3 x 10 ⁻⁶
U.S. POPULATION - SUMMER SEASON	0.000003	3.3 x 10 ⁻⁶
U.S. POPULATION - FALL SEASON	0.000003	3.3 x 10 ⁻⁶
U.S. POPULATION - WINTER SEASON	0.000004	4.4 x 10 ⁻⁶
NORTHEAST REGION	0.000004	4.4 x 10 ⁻⁶
NORTH CENTRAL REGION	0.000003	3.3 x 10 ⁻⁶
SOUTHERN REGION	0.000003	3.3 x 10 ⁻⁶
WESTERN REGION	0.000004	4.4 x 10 ⁻⁶
HISPANICS	0.000003	3.3 x 10 ⁻⁶
NONHISPANIC WHITES	0.000003	3.3 x 10 ⁻⁶
NONHISPANIC BLACKS	0.000003	3.3 x 10 ⁻⁶
NONHISPANICS OTHER	0.000006	6.6 x 10 ⁻⁶
NURSING INFANTS (< 1 YEAR OLD)	0.000003	3.3 x 10 ⁻⁶
NON-NURSING INFANTS (< 1 YEAR OLD)	0.000013	1.3 x 10 ⁻⁵
FEMALES (13+ YEARS, PREGNANT)	0.000003	3.3 x 10 ⁻⁶
FEMALES (13+ YEARS, NURSING)	0.000001	1.1 x 10 ⁻⁶
CHILDREN (1-6 YEARS OLD)	0.000009	9.9 x 10 ⁻⁶
CHILDREN (7-12 YEARS OLD)	0.000005	5.5 x 10 ⁻⁶
MALES (13-19 YEARS OLD)	0.000002	2.2 x 10 ⁻⁶
FEMALES (13-19 YEARS OLD, NOT PREG. OR NURSING)	0.000002	2.2 x 10 ⁻⁶
MALES (20 YEARS AND OLDER)	0.000002	2.2 x 10 ⁻⁶
FEMALES (20 YEARS AND OLDER)	0.000002	2.2 x 10 ⁻⁶

A determination of the nondietary worker risks will be provided in a later memorandum when EAB provides the worker exposure estimates.

Attachments