

006801



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

Jack/Trichilo

18 JUL 1989

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: REVISED INHALATION EXPOSURE ESTIMATES FOR
HANDLERS ASSOCIATED WITH THE TREATMENT OF
COTTON WITH INORGANIC ARSENIC PESTICIDES.

TO: Lazlo Madaras, Review Manager
Special Review Branch/SRRD (H7508C)

FROM: Arthur O. Schlosser, Chemist *Arthur O. Schlosser*
Review Section 1
Non-Dietary Exposure Branch/HED (H7509C)

THRU: Michael P. Firestone, Ph.D., Chief *MP Firestone*
Review Section 1
Non-Dietary Exposure Branch/HED (H7509C)

THRU: Charles L. Trichilo, Ph.D., Chief *Cl Trichilo*
Non-Dietary Exposure Branch/HED (H7509C)

Please find below the NDEB review of.....

HED Project #: 9-1362

Reg File/Rec #: 245174

Registration #: _____

Caswell #: 501B

Company Name: _____

Date Received: 7/12/89

Action Code: 870

Monitoring Study Requested: _____

Reviewing Time: 2 hrs

REVISED ESTIMATES OF ANNUAL INHALATION EXPOSURE TO ARSENIC FROM
APPLICATION OF ARSENIC ACID TO COTTON IN TEXAS

Worker	Coastal Bend and Blacklands	High/Rolling Plains
<u>GROUND:</u>		
Grower [days/yr]	[5]	[10]
[acres/day]	[85]	[85]
M/L (open)*	0.18 mg/yr	0.35 mg/yr
M/L (closed)*	0.18	0.35
Applicator	7.3	15.0
M/L = Appl. (open)*	7.5	15.0
M/L = Appl. (closed)*	7.5	15.0
Commercial [days/yr]	[36]	[20]
[acres/day]	[350]	[350]
M/L (open)*	5.0	2.8
M/L (closed)*	5.0	2.8
Applicator	62	34
<u>AERIAL:</u> [days/yr]	[6]	[25]
M/L (open)*	1.8	7.5
M/L (closed)*	1.8	7.5
Applicator	0.7	2.7

* Values for M/L (open pour) and M/L (closed loading) are identical since NDEB does not have data for each scenario. The value estimated is based data in which the loading system was not known for certain..

The revised inhalation estimates given above are based on revised use data contained in: Exposure Analysis of Arsenic Acid Application To Cotton for Desiccation: New Information - Memo from George W. Keitt, Jr., BAB/BEAD to Michael Firestone NDEB/HED, June 28, 1989.

cc: Correspondence
Arsenic File
Circulation
SACB
TB-HFS