

US EPA ARCHIVE DOCUMENT



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

MAR 24 1993

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OFFICE OF
PESTICIDES AND TOXIC
SUBSTANCES

MEMORANDUM

SUBJECT: ID. No. 099101, ~~Benzene~~, Information to Upgrade
Subchronic Inhalation Study

Tox. Chem. No.: 075A
DP Barcode: D182581
Record No. : S425270

FROM: Melba S. Morrow, D.V.M. *msm 3/11/93*
Review Section II, Toxicology Branch I
Health Effects Division (H7509C)

TO: Linda Propst/ Susan Cerrelli, PM 73
Reregistration Division (H7508W)

THRU: Karl Baetcke, Ph.D.
Chief,
Toxicology Branch I
Health Effects Division (H7509C)

[Handwritten signature]
3/12/93

CONCLUSIONS:

The registrant has provided information to upgrade their subchronic inhalation study. This information included data on the particle size distribution and the range of mass median aerodynamic diameters during a 90 day inhalation study. Based on the information provided, the study can be upgraded to core minimum. A summary of the supplementary information follows.

DISCUSSION:

With regard to MMAD at 10, 50 and 200 mg/m³, the range was from 1.7 to 2.3 microns, with the smaller MMADs being reported at the lowest concentration. The ranges were determined from 13 or 14 samples. The percent of particles that were < 10um ranged from 94/95 to 100% for the three concentrations. The range of particles < 3um was from 76 - 92, 68 - 76 and 60 - 76 for the low, mid and high concentrations, respectively. Based on the information provided, it is concluded that an adequate concentration of the test material reached the lungs.

In reference to a question raised on the monitoring of food consumption, the registrant states that the decision to monitor food consumption was made following an observation of weight decrements in the high concentration animals.

DP BARCODE: D189392

CASE: 284523
SUBMISSION: S437330

DATA PACKAGE RECORD
BEAN SHEET

DATE: 03/22/93
Page 1 of 1

*** CASE/SUBMISSION INFORMATION ***

CASE TYPE: MISCELLANEOUS ACTION: 405 6(A)(2) ADVERSE DATA
CHEMICALS: ** UNKNOWN **
ID#: 284523
COMPANY: E. I. DU PONT DE NEMOURS AND CO, INC.
PRODUCT MANAGER: 21 SUSAN LEWIS 703-305-6900 ROOM: CM2 229
PM TEAM REVIEWER: CARL GRABLE 703-305-7392 ROOM: CM2 223
RECEIVED DATE: 02/15/93 DUE OUT DATE: 04/26/93

*** DATA PACKAGE INFORMATION ***

DP BARCODE: 189392 EXPEDITE: N DATE SENT: 03/22/93 DATE RET.: / /
CHEMICAL: Unknown
DP TYPE: 001 Submission Related Data Package
ADMIN DUE DATE: 04/16/93 CSF: N LABEL: N
ASSIGNED TO DATE IN DATE OUT
DIV : EFED 03/23/93 / /
BRAN: EEB 03/24/93 / /
SECT: / / / /
REVR : / / / /
CONTR: / / / /

*** DATA REVIEW INSTRUCTIONS ***

ATTN: Dan Rieder. MRID #s: 426885-01, 426886-01 and
426879-01. Please review.

*** ADDITIONAL DATA PACKAGES FOR THIS SUBMISSION ***

DP BC BRANCH/SECTION DATE OUT DUE BACK INS CSF LABEL