

US EPA ARCHIVE DOCUMENT

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

JUN 27 1985

MEMORANDUM:OFFICE OF  
PESTICIDES AND TOXIC SUBSTANCES

SUBJECT: Registration # 239-2351, Captan: Metabolism data.

Tox. Chem. No.: 159  
Accession No.: 256804

TO: H. Jacoby (PM 21)  
Registration Division (TS-767C)

FROM: Marion P. Copley, D.V.M. *MPC 6/24/85*  
Section VI, Toxicology Branch  
Hazard Evaluation Division (TS-769C)

THRU: Jane Harris, Ph.D., Section Head *JCH 6/26/85*  
Section VI, Toxicology Branch  
Hazard Evaluation Division (TS-769C) *MPC 6/25/85*

Chevron has submitted a metabolism (rats, mice) study on the fungicide Captan Technical to the Environmental Protection Agency.

TITLE OF REPORT: S-2163 - The comparative metabolism of Captan in the rat and mouse (preliminary study).

Questions and comments: This series of studies presents an interesting comparison between rat and mouse metabolism, pH and the gastrointestinal fate of Captan. However, it is impossible to determine which animals and treatments described in the methods section apply to the various results. Preliminary study methods and the main study methods and data are merged, as are pretreated and non-pretreated results. These data may be easier to understand if the methods are presented in separate studies (or sub-studies) with their respective results. The various sections could still be compared in a single discussion. Individual animal data (where available) and standard deviation of the means need to be included in order for the reviewer to check for variability. The study needs to clarify when animals are used for multiple experiments. The percent purity of Captan Technical also needs to be mentioned.

Toxicology Branch suggests that the registrant reorganize and resubmit this metabolism study including the additional requested data.

Reviewed by: Marion P. Copley, D.V.M. *MP* 1/24/85  
Section 6 , Tox. Branch (TS-769C)  
Secondary reviewer: Jane Harris, Ph.D.  
Section 6 , Tox. Branch (TS-769C)

DATA EVALUATION REPORT

STUDY TYPE: Metabolism - rats, mice TOX. CHEM. NO.: 159

ACCESSION NUMBER: 256804

TEST MATERIAL: Captan

SYNONYMS:

STUDY NUMBER(S): Chevron # SOCAL 1992, S-2163

SPONSOR: Chevron Chemical Company

TESTING FACILITY: Chevron Environmental Health Center, Inc.,  
Richmond, Calif.

TITLE OF REPORT: S-2163 - The comparative metabolism of Captan in  
the rat and mouse (preliminary study).

AUTHOR(S): Z.A. Wong, H.M. Chang, I. Abell

REPORT ISSUED: Jan. 16, 1985

CONCLUSION: This study can not be reviewed due to the confusing  
manner of its presentation.

Classification: unacceptable

Questions and comments: This series of studies presents an interesting comparison between rat and mouse metabolism, pH and the gastrointestinal fate of Captan. However, it is impossible to determine which animals and treatments described in the methods section apply to the various results. Preliminary study methods and the main study methods and data are merged, as are pretreated and non-pretreated results. These data may be easier to understand if the methods are presented in separate studies (or sub-studies) with their respective results. The various sections could still be compared in a single discussion. Individual animal data (where available) and standard deviation of the means need to be included in order for the reviewer to check for variability. The study needs to clarify when animals are used for multiple experiments. The percent purity of Captan Technical also needs to be mentioned.

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