UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

TO: Henry Jacoby, Product Manager #21
Registration Division (TS-767)

THRU: Edwin R. Budd, Section Head
Section II, Toxicology Branch
Hazard Evaluation Division (TS-769) 9/30/82

SUBJECT: Dietary Analysis Addendum to Mouse Spot Test of Captan. Reg. No. 239-1246.

TOX Chem. No. 159

Registrant: Chevron Chemical Company
Richmond, California

Background:

A mouse somatic cell mutation assay was performed by Litton Bionetics, Project No. 20951, October, 1980 for Chevron Chemical Company. This submission is a report of the dietary analysis.

Recommendation:

Accept and include this dietary information with the somatic cell mutation assay. The dietary analysis results in a lowering of the reported dose levels.

Study:

The previously reported analytical method for dietary analysis method resulted in captan recoveries that were consistantly greater than 100%. The Chevron Research and Development Department studied the problem and determined that column fatigue was probably the cause. The addition of a cleanup step in the extraction process resulted in more reproducible and consistant results. The analysis was rerun using this step which consisted of diluting the acetone extraction with benzene and washing with deionized water before analysing with a gas chromatograph.

Results:

Dietary Dose Level (ppm)	Captan Found (ppm)	Actual Dose Level (average)
0	0	0
0	0	
100	56	56
100	58	
1000	688	766
1000	844	
5000	4670	4835
5000	5000	

Conclusions:

The additional step appears to produce more accurate results. These dose levels should be used in evaluating the mouse somatic cell mutation assay.

William R Schneider

William R. Schneider, Ph.D.
Toxicology Branch
Hazard Evaluation Division (TS-769)

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