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Haskell Laboratory for Toxicology and Industrial Medicine
Elkton Road, Newark, Delaware 19711

HASKELL LABORATORY REPORT NO. 783-80 [REDACTED]

[REDACTED] Material Tested

Haskell No.
13,584

[REDACTED] Other Codes

Study Initiated/Completed
6/5/80 - 8/28/80

Material Submitted by
[REDACTED]
CR&D Dept.
Haskell Lab

ORAL LD50 TEST IN RATS

Procedure: The test material, as a suspension in corn oil, was administered by intragastric intubation in single doses to 5 groups of 10 young adult ChR-CDE male rats. A Range-Finding Study using 1 rat/dose level was conducted to determine the initial dose level for the LD50 test. (1) The surviving rats were weighed and observed during a 24-26 day recovery period and then sacrificed. The LD50 value was calculated from the mortality data using the method of D. J. Finney.**

Results:

<u>Dose</u> <u>(mg/kg)</u>	<u>Average Body</u> <u>Weight (g)</u>	<u>Suspension</u> <u>(%)</u>	<u>Average</u> <u>Dose (ml)</u>	<u>Mortality</u> <u>Ratio</u>	<u>LD50***</u>
250	259	1.5	4.31	10/10	96 mg/kg
200	248	1.2	4.13	10/10	
150	260	1.0	3.91	10/10	
100	253	0.6	4.22	3/10	
50	245	0.3	4.09	1/10	

Clinical Signs:

250 mg/kg	Stained and wet perineal area, stained face, diarrhea, weakness, lethargy and continual weight loss. All deaths occurred within 5 days after dosing.
200 mg/kg	Stained body, wet perineal area, diarrhea, piloerection, weakness, lethargy and continual weight loss. All deaths occurred within 6 days after dosing.
150 mg/kg	Stained body, wet perineal area, diarrhea, humped posture, eyes half-closed, weakness, lethargy and continual weight loss. All deaths occurred within 12 days after dosing.
100 mg/kg	Stained body, wet perineal area, diarrhea, humped posture, eyes half-closed, piloerection, alopecia, weakness and severe weight loss. All deaths occurred within 16 days after dosing.
50 mg/kg	Stained and wet perineal area, alopecia and moderate to severe weight loss. Death occurred on 4th day after dosing.

Summary: [REDACTED] is moderately toxic when administered orally to young adult ChR-CDE male rats in single doses; its LD50 is 96 mg/kg of body weight. Clinical signs observed at most dose levels included: stained body, wet perineal area, diarrhea, weakness, lethargy and weight loss. All deaths occurred within 16 days after dosing.

These animals were held for a prolonged recovery period due to deaths occurring as long as 16 days after treatment.

* Purity: [REDACTED]

** Finney, D. J., Probit Analysis, 3rd Ed., 1971, Cambridge University Press.

*** 95% Confidence Limits:

Lower:	72 mg/kg
Upper:	116 mg/kg
Slope:	6.7

(1) The Range-Finding Study was run from 200-2,250 mg/kg with death occurring at all dose levels except 200 mg/kg.

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LH:jrg
Study Director: O. L. Dashiell
Date Issued: October 1, 1980
[Redacted]
Report No. 783-80