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E. I. du Pont de Nemours and Company
Haskell Laboratory for Toxicology and Industrial Medicine
Elkton Road, Newark, Delaware 19711

HASKELL LABORATORY REPORT NO. 374-81

MR NO. [REDACTED]

Material Tested

Haskell No.

Other Codes

14,008

Study Initiated/Completed

3/31/81 - 5/11/81

Material Submitted by

[REDACTED]
Polymer Products Department
Experimental Station

ORAL LD50 TEST IN RATS

Procedure: The test material, as an aqueous suspension, was administered by intragastric intubation in single doses to 5 groups of 10 young adult Cr1:CD ϕ male rats. A Range Finding Study was conducted to determine the initial dose level for the LD50 test.** The surviving rats were weighed and observed during a 14-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 (mg/kg)</u>	<u>Average Body Weight (g)</u>	<u>Suspension (%)</u>	<u>Average Dose (mL)</u>	<u>Mortality Ratio</u>	<u>LD50****</u>
8,000	253	50%	4.05	6/10	7,797 mg/kg
7,000	245	40	4.30	2/10	
6,000	241	30	4.82	3/10	
5,000	248	30	3.95	1/10	
4,000	247	25	3.95	0/10	

Clinical Signs:

Stained face, stained and wet perineal area at all levels tested except 4,000 mg/kg.

Weakness at 8,000, 7,000 and 6,000 mg/kg.

Diarrhea at 8,000 mg/kg.

Weight loss at all levels tested.

All deaths occurred within 6 days after dosing.

Summary: [REDACTED] has very low toxicity when administered orally to young adult CrI:CD¹ male rats; its LD50 is 7,797 mg/kg of body weight. Clinical signs most frequently observed were: stained face, stained and/or wet perineal area, weakness and weight loss. All deaths occurred within 6 days after dosing.

* Purity: [REDACTED]

Synonym: [REDACTED]

Contaminants: [REDACTED]

** A Range Finding Study produced deaths at 5,000 and 7,500 mg/kg, after dosing from 670 to 7,500 mg/kg, 1 rat per dose level.

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

**** 95% Confidence Limits:

Upper:	12,454 mg/kg
Lower:	6,798 mg/kg
Slope:	7.3

Report by: John A. Hall
John A. Hall
Technician

Reviewed by: O. Louis Dashiell
O. Louis Dashiell
Study Director

Approved by: Gerald L. Kennedy
Gerald L. Kennedy
Chief, Acute Investigations Section

JAH:jrg

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