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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. 291-81 [REDACTED]

Material Tested
Octanoic acid, pentadecafluoro-,
ammonium salt*

Haskell No.
12,037

Other Codes
[REDACTED]

Study Initiated/Completed
5/20/80 - 6/17/81

Material Submitted by
G. L. Kennedy
CR&D Department
Haskell Laboratory

ORAL LD50 TEST IN GUINEA PIGS

Procedure: The test material, as a suspension in corn oil, was administered by intragastric intubation in single doses to 6 groups of male and 6 groups of female young adult Duncan Hartley guinea pigs, 10 per group. The surviving guinea pigs 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>Males</u>					
<u>Dose</u>	<u>Average Body</u>	<u>Suspension</u>	<u>Average</u>	<u>Mortality</u>	
<u>(mg/kg)</u>	<u>Weight (g)</u>	<u>(%)</u>	<u>Dose (ml)</u>	<u>Ratio</u>	<u>LD50***</u>
0	419	10	2.80	10/10	178 mg/kg
400	492	10	1.97	10/10	
300	522	5	3.13	10/10	
250	433	5	2.15	9/10	
200	461	5	2.13	6/10	
150	425	2	3.19	3/10	

Results: (Cont'd.)

<u>Females</u>					
<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>
670	450	10	3.02	10/10	217 mg/kg
400	499	10	2.00	10/10	
300	477	5	2.86	9/10	
250	419	5	2.10	8/10	
200	493	5	1.97	1/10	
150	411	2	3.09	2/10	

Clinical Signs:

Males: Stained and/or wet perineal area, weakness at all levels tested except 670 and 400 mg/kg.

Stained face at 670, 200 and 150 mg/kg.

Eyes half closed at 300 and 200 mg/kg.

Lacrimation at 200 and 150 mg/kg.

Salivation at 300 and 150 mg/kg.

Ataxia at 670 mg/kg.

Tremors at 150 mg/kg.

Humped posture at 200 mg/kg.

Weight loss at all levels tested except at 670 and 400 mg/kg.

All deaths occurred within 1-4 days after dosing.

Clinical Signs: (Cont'd.)

Females: Stained and/or wet perineal area and weakness at all levels tested except 670 and 400 mg/kg.

Convulsions, ataxia, gasping at 670 mg/kg

Eyes half closed at 250 and 150 mg/kg.

Tremors at 400 mg/kg.

Lacrimation at 250 mg/kg.

Stained face at 200 mg/kg.

Lethargy at 150 mg/kg.

Weight loss at all levels tested except for 670 mg/kg.

All deaths occurred within 1-6 days after dosing.

Summary: [REDACTED] is moderately toxic when administered orally to young adult Duncan Hartley male and female guinea pigs; its LD50 for males is 178 mg/kg and females 217 mg/kg of body weight. Clinical signs for males and females included: stained and/or wet perineal area, convulsions, gasping, stained face, eyes half-closed, and weight loss. All deaths occurred within 1-6 days after dosing.

*

Synonym: [REDACTED]

Contaminant: [REDACTED]

Purity: [REDACTED]

CAS Registry No.: [REDACTED]

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

*** 95% Confidence Limits:

Males:
Lower: 144 ng/kg
Upper: 202 ng/kg
Slope: 8.9

Females:
Lower: 187 ng/kg
Upper: 246 ng/kg
Slope: 8.6

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
Date Issued: June 1, 1981

[REDACTED]
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