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HASKELL LABORATORY REPORT NO. 567-81 [REDACTED]

<u>Material Tested</u>	<u>Haskell No.</u>	<u>Other Codes</u>
Octanoic acid, pentadecafluoro-, ammonium salt*	12,037	[REDACTED]
[REDACTED]	14,033	[REDACTED]
[REDACTED]	14,034	[REDACTED]

Study Initiated/Completed
4/6/81 - 5/14/81

Material Submitted by
[REDACTED]
CR&D Department
Haskell Laboratory

ORAL LD50 TEST IN RATS

Purpose: To determine the effects of [REDACTED] and [REDACTED] if any, on the LD50 value of [REDACTED] in rats.

Procedure: Thirty young adult male Crl:CD® rats were treated by single intraperitoneal injections with aqueous solutions of [REDACTED] at 80 mg/kg/day for 3 days. One day after the final treatment, the 30 rats, 10 rats per group, were administered [REDACTED] by intragastric intubation as a suspension in corn oil in single doses to determine the LD50 value. 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.**

Another group of 30 male rats was treated by single intraperitoneal injection with aqueous solutions of [REDACTED] at 50 mg/kg. One hour after treatment [REDACTED] was administered, using the same procedure as above, to determine the LD50 value.

An additional group of 30 male rats served as controls and was administered only the [REDACTED] by intragastric intubation to determine the LD50 value. The same procedure was used.

Results:

H-12,037 Control [REDACTED]

<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>
650	267	4	4.32	8/10	478 mg/kg
500	276	3	4.59	7/10	
400	262	3	3.49	2/10	

Clinical Signs: Wet and/or stained perineal area and weight loss at all levels tested. Stained face and weakness at 650 and 500 mg/kg. Chromodacryorrhea at 500 mg/kg. All deaths occurred within 6 days after dosing.

H-12,037 [REDACTED] & H-14,033 [REDACTED]

<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>
650	259	4	4.21	19/20††	547 mg/kg
500	260	3	4.33	4/20	
400	261	3	3.48	0/20	

Clinical Signs: Wet and stained perineal area, stained face, diarrhea and weight loss at all levels tested. Weakness at 650 and 500 mg/kg and lethargy at 650 mg/kg. All deaths occurred within 4 days after dosing.

H-12,037 [REDACTED] & H-14,034 [REDACTED]

<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>
650	269	4	4.37	8/10	520 mg/kg
500	256	3	4.27	5/10	
400	261	3	3.48	1/10	

Clinical Signs: Stained face, wet and stained perineal area, weight loss and weakness at all levels tested. Diarrhea at 650 and 500 mg/kg. Tremors and chromodacryorrhea at 400 mg/kg and lacrimation at 650 mg/kg. All deaths occurred within 5 days after dosing.

Summary: There were no significant differences in the LD50 values of [REDACTED] either when tested alone or following pre-treatment with either [REDACTED] or [REDACTED]. The LD50 for [REDACTED] is 478 mg/kg, [REDACTED] following [REDACTED] is 520 mg/kg and [REDACTED] following [REDACTED] is 547 mg/kg of body weight.

Clinical signs most frequently seen included: wet and stained perineal area, stained face, weakness, diarrhea and weight loss. All deaths occurred within 6 days after dosing.

* H-12,037

Synonyms: [REDACTED]

Purity: [REDACTED]

Contaminants: [REDACTED]

H-14,033

Synonym: [REDACTED]

CAS Registry No.: [REDACTED]

Purity: [REDACTED]

H-14,034

Synonyms: [REDACTED]

CAS Registry No.: [REDACTED]

Purity: [REDACTED]

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

*** 95% Confidence Limits: Lower: 361 mg/kg
Upper: 571 mg/kg
Slope: 7.9

**** 95% Confidence Limits: Lower: 517 mg/kg
Upper: 582 mg/kg
Slope: 22.1

† 95% Confidence Limits: Lower: 450 mg/kg
Upper: 618 mg/kg
Slope: 9.8

†† The [REDACTED] of this study was repeated. Rats were combined and the LD50 value was based on all 60 rats.

Report by:

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JEH:jrg:WP:1.12

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[REDACTED]
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