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E. I. du Pont de Nemours and Co., Inc.
Haskell Laboratory for Toxicology and Industrial Medicine
Elkton Road, P. O. Box 50,
Newark, Delaware 19711

HASKELL LABORATORY REPORT NO. 537-82 [REDACTED]

<u>Material Tested*</u>	<u>Haskell No.</u>	<u>Other Codes</u>
Octanoic acid, pentadecafluoro-, ammonium salt	12,037	C-8

[REDACTED] 13,584 [REDACTED]

Study Initiated/Completed
6/2/82-6/16/82

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

FOURTEEN-DAY FEEDING STUDY IN MALE AND FEMALE MICE

Summary: Crl®:CD-1 male and female mice were fed either [REDACTED] at dose levels of either 3000, 300, 30, 10 or 3 ppm, or ammonium perfluorooctanoate at 30 ppm or the 2 test materials combined for a total of 30 ppm, (15 ppm each or 25 and 5 ppm each) for 14 consecutive days. All male and female mice died within 12 days after feeding [REDACTED] at 3000 and 300 ppm.

Liver weight/body weight ratios showed an increase at all levels tested when compared to the controls. Mixing the 2 test materials and feeding at 30 ppm did not alter the effects. The materials appear to have similar potentials for causing liver enlargement in mice. Liver enlargement appears to be dose-related with [REDACTED] being the more toxic of the two materials tested [REDACTED].

Purpose: To determine:

- The toxicity of [REDACTED]
- At what dose levels liver enlargement is produced.
- The effects of mixing with ammonium perfluorooctanoate.
- Comparison of the ability of the 2 test materials to produce liver enlargement.

Procedure: Fifty-five male and 55 female Cr1[®]:CD-1 mice (age 44 days, weighing 24-35 g) were grouped into 22 groups, 5 mice per sex per group, by computerized randomization. The mice were housed individually and fed [REDACTED] at dietary levels of either 3000, 300, 30, 10 or 3 ppm or ammonium perfluorooctanoate at 30 ppm or mixtures of the 2 materials for 14 consecutive days. Two groups of male and 2 groups of female controls were observed concurrently and fed only ground Purina Lab Chow[®]. Individual body weights were recorded at 0, 7, 9 and 14 days, clinical signs read daily and liver weights recorded at the 14-day sacrifice.

Results: Male Mice

[REDACTED] (H-13,584)

Dose Level ppm	Average Body Weights After Feeding (g)		Average Liver Weight (g)	Average Liver Weight/ Body Weight Ratio	
	1 Week	2 Weeks		(g/100g	Body Weight)
0	32	35	2.08	6.01	
3	34	36	3.01	8.44	
10	33	29	4.01	13.68	
30	33	36	3.85	10.46	
300	20	**	-	-	
3000	18	**			

Ammonium perfluorooctanoate (H-12,037)

Dose Level ppm	Average Body Weights After Feeding (g)		Average Liver Weight (g)	Average Liver Weight/ Body Weight Ratio	
	1 Week	2 Weeks		(g/100g	Body Weight)
30	31	33	4.54	13.68	

[REDACTED] Ammonium perfluorooctanoate (H-13,584/H-12,037)

Dose Level ppm	Average Body Weights After Feeding (g)		Average Liver Weight (g)	Average Liver Weight/ Body Weight Ratio	
	1 Week	2 Weeks		(g/100g	Body Weight)
15/15	33	33	4.50	13.43	
5/25	31	34	4.43	13.08	
25/5	33	34	4.83	14.12	

Results: Female Mice

[REDACTED] (H-13,584)

Dose Level ppm	Average Body Weights After Feeding (g)		Average Liver Weight (g)	Average Liver Weight/ Body Weight Ratio (g/100g Body Weight)
	1 Week	2 Weeks		
0	26	28	1.61	5.71
3	27	30	2.29	7.67
10	26	25	3.41	13.86
30	27	29	3.08	10.47
300	15	**	-	-
3000	16	**	-	-

Ammonium perfluorooctanoate (H-12,037)

Dose Level ppm	Average Body Weights After Feeding (g)		Average Liver Weight (g)	Average Liver Weight/ Body Weight Ratio (g/100g Body Weight)
	1 Week	2 Weeks		
30	26	27	3.65	13.29

[REDACTED] Ammonium perfluorooctanoate (H-13,584/H-12,037)

Dose Level ppm	Average Body Weights After Feeding (g)		Average Liver Weight (g)	Average Liver Weight/ Body Weight Ratio (g/100g Body Weight)
	1 Week	2 Weeks		
15/15	27	28	3.81	13.61
5/25	26	28	3.79	13.53
25/5	26	28	4.13	14.53

** All animals died at this dose level.

* H-12,037

Purity: [REDACTED]

Contaminants: [REDACTED]

Synonyms: o Ammonium perfluorooctanoate
o [REDACTED]
o [REDACTED]

* H-13,584

Purity: [REDACTED]

CAS Registry Number: [REDACTED]

Report by: John E. Henry
John E. Henry
Technician

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

Approved by: Gerald L. Kennedy, Jr. for G. L. Kennedy
Gerald L. Kennedy, Jr.
Section Supervisor
Acute Investigations

JEH:tac:WP:4.10

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