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HASKELL LABORATORY REPORT NO. 79-84 [REDACTED]

<u>Material Tested*</u>	<u>Haskell No.</u>	<u>Other Codes</u>
1) Octanoic acid, Pentadecafluoro-, ammonium salt	12,037	C-8
2) Ethanol	14,547	Publicker Chem. Co.

<u>Study Initiated/Completed</u> 5/24/82-6/22/82	<u>Material Submitted by</u> [REDACTED] Central Research & Development Haskell Laboratory
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ACUTE ORAL EFFECTS OF C-8 AND ETHANOL IN THE RAT

Summary: Young adult male Crl:CD® rats were administered a single dose of ethanol by intragastric intubation at 6,000 mg/kg or a 15% (v/v) solution in drinking water for 14 consecutive days and/or a single dose of ammonium perfluorooctanoate at dose levels of either 670, 480, or 200 mg/kg. All rats died within 8 days after dosing with ammonium perfluorooctanoate at 670 mg/kg.

Liver weight/body weight ratios showed a sharp increase in all rats that received ammonium perfluorooctanoate when compared to the untreated controls and the animals that received only ethanol. There were no significant differences between the untreated controls and the animals that received only ethanol or between the ethanol pre-treated ammonium perfluorooctanoate and the rats that received only ammonium perfluorooctanoate.

Purpose: To determine if pre-treatment with ethanol modifies the toxicity of ammonium perfluorooctanoate.

Procedure: Seventy-two young adult male Crl:CD® rats were divided into 12 groups, 6 rats per group, and individually housed. Eleven groups of rats were administered either a single dose of ethanol at 6,000 mg/kg by intragastric intubation as a 60% aqueous solution or a 15% aqueous solution (v/v) in drinking water for 14 consecutive days and/or a single dose of ammonium perfluorooctanoate as a 60% solution at dose levels of either 670, 480, or 200 mg/kg. An additional group of untreated rats served as controls. Clinical signs were recorded daily and body weights were recorded at 0, 1, 2, 3, 6, 7, 8, 10 and 14 days. Liver weights were recorded at the 14-day sacrifice.

Results:

Ethanol

Dose Level	Average Body Weight		Average Liver Weight (g)	Average Liver Weight/ Body Weight Ratio (mg/kg body weight)
	0 Day	14 Days		
0	351	416	19.61	4.72
6,000 mg/kg	339	399	18.43	4.59
15% (v/v)	346	393	17.52	4.44

Clinical Signs: Prostration on day of dosing at 6,000 mg/kg. Slight weight loss for the first 2 days of ethanol in drinking water.

Fourteen days of ethanol in drinking water at 15% (v/v) followed on the 15th day by ammonium perfluorooctanoate

Dose Level (mg/kg)	Average Body Weight		Average Liver Weight (g)	Average Liver Weight/ Body Weight Ratio (mg/kg body weight)
	0 Day	14 Days		
670	330	-	-	-
480	329	-	-	-
200	335	390	24.18	6.23

Clinical Signs: Wet and stained perineal area and weakness at 200 mg/kg. All animals died within 6 days after dosing at 670 and 480 mg/kg.

Single dose of ethanol at 6,000 mg/kg followed 24 hours later with doses of ammonium perfluorooctanoate

Dose Level (mg/kg)	Average Body Weight		Average Liver Weight (g)	Average Liver Weight/ Body Weight Ratio (mg/kg body weight)
	0 Day	14 Days		
670	343	-	-	-
480	343	369	25.83	6.97
200	341	389	24.99	6.41

Clinical Signs: All rats at 670 mg/kg died within 8 days after dosing. One animal died at 480 mg/kg. Wet and/or stained perineal area at all levels tested. Stained face and alopecia at 480 mg/kg.

Results: (cont'd)

Ammonium Perfluorooctanoate

<u>Dose Level</u> <u>(mg/kg)</u>	<u>Average Body Weight</u>		<u>Average Liver</u> <u>Weight (g)</u>	<u>Average Liver Weight/</u> <u>Body Weight Ratio</u> <u>(mg/kg body weight)</u>
	<u>0 Day</u>	<u>14 Days</u>		
670	345	-	-	-
480	353	392	23.99	6.23
200	374	424	30.59	7.20

Clinical Signs: Wet and stained perineal area, weakness and lethargy at 670 and 480 mg/kg. All animals were found dead at 670 mg/kg within 4 days after dosing and 1 died at 480 mg/kg.

* H-12,037

Purity: [REDACTED]

Contaminants: [REDACTED]

Synonyms:

- o Ammonium Perfluorooctanoate
- o C-8

CAS Registry Number: [REDACTED]

* H-14,547

Purity: [REDACTED]

Synonym: [REDACTED]

CAS Registry Number: [REDACTED]

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