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HASKELL LABORATORY REPORT NO. 138-83 [REDACTED]

Material Tested*
Octanoic acid, pentadecafluoro-,
ammonium salt

Haskell No.
12,037

Other Codes
C-8

Study Initiated/Completed
11/29/82-12/22/82

Material Submitted by
[REDACTED]
Central Research &
Development Department
Haskell Laboratory

C-8 LIVER WEIGHTS IN RATS AND MICE:
ORAL ADMINISTRATION TO MALES AND FEMALES

Summary: Ammonium perfluorooctanoate (C8) was administered orally to 3 groups of 10 young Crl:CD^m rats and 3 groups of 10 young CD-1 mice (5 male and 5 females per group per species) at dose levels of either 0.1, 1.0, or 10 mg/kg of body weight. The animals received a total of 9 doses (3 per week) over a 3-week period. Sporadic weight loss was the only clinical sign observed. It was seen in the female (but not male) rats and in both sexes of mice. Weakness followed by death occurred in 2 female mice dosed at 10 mg/kg. All remaining animals were sacrificed the third day after the last dose and the livers were removed and weighed.

A significant liver weight increase was noted in both male and female mice at the two higher (1 and 10 mg/kg) levels. Significantly increased liver weights were noted in male rats, but only at the high level. There were no significant changes in female liver weights at any dose.

Procedure: The test material (as aqueous solutions) was administered by intragastric intubation to 3 groups of 10 Crl:CD^m rats and 3 groups of 10 CD^m-1 mice (5 males and 5 females per group per species) at dose levels of either 0.1, 1.0 or 10 mg/kg of body weight. An additional group of 20 animals (5 males and 5 females per species) served as controls and was intubated with water only. Each species was dosed Monday, Wednesday and Friday for each of 3 consecutive weeks (total of 9 doses). Animals were weighed once prior to dosing, each day before dosing and on the day of sacrifice. Clinical observations were made daily (weekends excluded) for signs of toxicity. Three days after the final dose, the animals were sacrificed and the livers were removed and weighed.

Results:

<u>Species</u>	<u>Sex</u>	<u>Dose</u> <u>(mg/kg)</u>	<u>No. of</u> <u>Doses</u>	<u>Mortality</u>	<u>Clinical Signs</u>
Rat	M	10	9	0/5	None
Rat	F	10	9	0/5	None
Rat	M	1	9	0/5	Sporadic weight loss
Rat	F	1	9	0/5	None
Rat	M	0.1	9	0/5	Sporadic weight loss
Rat	F	0.1	9	0/5	None
Rat	M	0	9	0/5	Sporadic weight loss
Rat	F	0	9	0/5	None
Mouse	M	10	9	0/5	None
Mouse	F	10	9	2/5	Sporadic weight loss
Mouse	M	1	9	0/5	Sporadic weight loss and weakness
Mouse	F	1	9	0/5	Sporadic weight loss
Mouse	M	0.1	9	0/5	Sporadic weight loss
Mouse	F	0.1	9	0/5	Sporadic weight loss
Mouse	M	0	9	0/5	Sporadic weight loss
Mouse	F	0	9	0/5	None
Mouse	F	0	9	0/5	None

Pathologic Changes:** Animals sacrificed 3 days after the final dose had enlarged and heavy livers. This effect was evident in both male and female mice at the high and intermediate levels and also in male rats at the high level. (A summary of mean values is presented in the Table.)

Company Sanitized. Does not contain TSCA CB1

* Purity: [REDACTED]

Contaminants: [REDACTED]

Synonyms: o Ammonium perfluorooctanoate

[REDACTED]
o C-8
[REDACTED]

** Livers were removed and weighed by G. L. Kennedy, Jr., Section Supervisor, Acute Investigations and T. P. Pastoor, Research Toxicologist.

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CNW:jta:WP:2.29

Date Issued: May 18, 1983
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Table
Liver Weights of Rats and Mice
Treated with Ammonium Perfluorooctanoate

Specie	Sex	Dose (mg/kg)	Liver Weight (g)	Liver/Body Wt. Ratio (w/w%)
Rat	M	0	18.63	
		0.1	16.64	4.87
		1	16.59	4.43
		10	27.01*	4.55
	F			7.15*
		0	11.28	
		0.1	10.83	4.68
		1	10.54	4.68
		10	10.65	4.61
				4.54
Mouse	M	0	1.92	
		0.1	2.33	6.38
		1	2.81*	7.33
		10	5.36*	9.12*
	F			16.97*
		0	1.69	
		0.1	1.71	6.29
		1	2.27*	6.77
		10	4.35*	8.98*
				17.91*

*Increased, $p < 0.05$

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