

E. I. du Pont de Nemours and Co.
Haskell Laboratory for Toxicology and Industrial Medicine
HASKELL LABORATORY REPORT NO. 55-61

Material Tested: Ammonium Perfluorocaprylate

Haskell No.: 3035

Submitted by: [REDACTED] Polychemicals Department
Research and Development Division

Other Codes: [REDACTED]

Acute Oral Test

Procedure: Test material was administered by stomach tube in aqueous solution as a single dose to ChR-CD male rats. The survivors were killed 14-15 days later.

Aqueous Solution, %	Dosage (mg/kg)	Mortality	Toxic Signs	Weight When Killed		Liver Wt. Body Wt. X 100
				Liver (g.)	Body (g.)	
30	2250	1/1	Inactivity, red discharge around nose died within 18 hours			
20	1500	1/1	"			
30	1000	1/1	Discomfort, inactivity, initial wt. loss, died within 23 hours			
10	670	1/1	Irritability, red discharge around nose, wt. loss, died within 43 hrs.			
10	450	0/1	Ruffled fur, perineal discoloration, wt. loss for 3 days	28.2	452	6.2
10	300	0/1	Ruffled fur, perineal discoloration, wt. loss for 2 days	25.2	474	5.3
10	200	0/1	Weight loss for 2 days	30.6	542	5.6
3	120	0/1	Inactivity, ruffled fur	16.2	374	4.3
1	40	0/1	Wt. loss for 2 days	24.1	530	4.5
1	12	0/1	None	25.2	598	4.2
0.1	1.5	0/1	None	24.1	592	4.1

Company Sanitized. Does not contain TSCA CB1

Comments:

Ammonium perfluorocaprylate [REDACTED] has an Approximate Oral Lethal Dose (ALD) of 670 mg/kg of body weight. Clinical signs of toxicity included inactivity, a red discharge around the nose, perineal discoloration and weight loss. Animals killed 14-15 days after having received doses down to and including 200 mg/kg had enlarged livers when compared to control rats weighing between 500-550 grams with liver weights of 22.6, 20.7, 19.1 and 21.7 grams and liver weight/body weight percentages of 4.2, 3.8, 3.6 and 3.8, respectively. Liver enlargement is also suspicious in rats dosed below 200 mg/kg but additional test and control rats would have to be compared in order to establish whether this is a fact.

Report by:

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Approved by:

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HS:hah

November 8, 1961