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E. I. du Pont de Nemours and Company
Haskell Laboratory for Toxicology and Industrial Medicine

HASKELL LABORATORY REPORT NO. 129-68 [REDACTED]

Material Tested: Ammonium Perfluorononanoate

H. kell No.: 5490

Material Submitted by: [REDACTED] Plastics Department
Fluorocarbons Division

Other Code: [REDACTED]

ACUTE ORAL TEST

Procedure: The test material was administered, as a solution in water, by intragastric intubation to young adult ChR-CD male rats in single doses. Survivors were sacrificed 14-19 days later.

Results:

Solution %	Dose mg/kg	Mortality*	Toxic Signs	Weight When Killed (g)		L.W./B.W. X 100	ALD	
				Body	Liver			
15	2250	D - 1 d.	<u>Lethal Doses:</u> polyuria, belly-crawling, pallor, salivation, half-closed eyes, incoordination, ruffled fur, diarrhea, continuous weight loss, emaciation	-	-	-	187 mg/kg	
10	1500	D - 1 d.		-	-	-		
10	1000	D - 3 d.		228	-	-		
15	670	D - 1 d.		-	12.10	-		
10	450	D - 1 d.		-	-	-		
10	300	D - 6 d.	<u>Nonlethal Doses:</u> pallor, salivation, polyuria, chewing-motions, on day of dosing at 26 mg/kg and above; weight loss for 15, 12, and 9 days at 130, 90, and 60 mg/kg, respectively; slight initial weight losses at 40 and 26 mg/kg; no clinical signs observed below 26 mg/kg	184	10.48	5.70		
2	187	D - 5 d.		185	13.50	7.30		
2	130	S - 19 d.		143	13.90	9.92		
2	90	S - 14 d.		178	15.21	8.54		
1	60	S - 14 d.		177	13.91	7.86		
1	40	S - 14 d.		277	23.73	8.57		
1	26	S - 14 d.		365	26.90	7.37		
0.1	17	S - 14 d.		321	25.07	7.81		
0.1	12	S - 14 d.		316	19.53	6.18		
0.1	7.7	S - 14 d.		295	20.78	7.04		
0.1	5.1	S - 14 d.		334	17.42	5.21		
0.02	3.4	S - 14 d.		308	14.00	4.54		
0.02	2.3	S - 14 d.		331	15.40	4.65		
0.02	1.5	S - 14 d.		323	14.70	4.55		
0.02	1.0	S - 14 d.		348	15.30	4.40		
Controls				352-377	15.09-18.89	4.29-5.11		

* D - () d. = Found dead () days after dosing; S - () d. = Sacrificed () days after dosing.

Company Sanitized. Does not contain TSCA CBI

Summary: Ammonium perfluoronanoate [REDACTED] is moderately toxic for the male rat when administered orally in single doses, its Approximate Lethal Dose (ALD) being 187 mg/kg. Based on clinical signs, the compound appears to act as a gastrointestinal irritant and to produce heavy livers. The highest "no-effect" level for this increased liver weight and increased liver/body weight ratio is 3.4 mg/kg of body weight.

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Date: June 13, 1968

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