

86-890000751

CENTRAL RESEARCH AND DEVELOPMENT DEPARTMENT  
HASKELL LABORATORY FOR TOXICOLOGY  
AND INDUSTRIAL MEDICINE

~~86-890000751~~ 4

5 May 1989

TO: M. H. CHRISTMAN  
LEGAL DEPARTMENT  
D-7010-1

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MAY 05 1989

FROM: N. S. SELZER *NSS/smk*  
CENTRAL RESEARCH AND DEVELOPMENT DEPARTMENT  
HASKELL LABORATORY

TSCA 8(d) APRIL 13, 1989 AMENDMENT

Enclosed are two copies of each Haskell Laboratory report on CAS Number 75-43-~~8~~<sup>4</sup>- Dichloromonofluoromethane—Methane, dichlorofluoro-. One copy has been prepared for distribution outside the company.

<u>Haskell Laboratory Report No.</u>	<u>Test Type</u>
493-77	Ninety-Day Inhalation Exposure of Rats and Dogs
128-64	Acute Inhalation Toxicity - LC50
149-76	Two-Week Inhalation Toxicity
23-45	Kitchen Tests
105-64	Skin and Eye Irritation in Rabbits
107-64	Eye Irritation in Rabbits
423-70	Eye Irritation in Rabbits
751-75	Eye Irritation in Rabbits
750-75	Primary Skin Irritation and Sensitization Tests on Guinea Pigs
225-76	Embryotoxic and Teratogenic in Rats
707-75	Cardiac Sensitization

NSS:smk  
INSMK1.14

**CHEMICAL:** Dichloromonofluoromethane  
**CAS NO.:** 75-43-4

**STUDY:**

**SUBMISSION DATE:** June 12, 1989

- Ninety-Day Inhalation Exposure of Rats and Dogs to Vapors
- Acute Inhalation Toxicity - LC50
- Two-Week Inhalation Toxicity
- Kitchen Tests on "Freon" Refrigerants
- Skin and Eye Irritation in Rabbits
- Primary Skin Irritation and Sensitization Tests on Guinea Pigs
- Embryotoxic and Teratogenic Studies in Rats with Inhaled  
- Dichlorofluoromethane and 2,2-Dichloro-1,1,1-Trifluoroethane
- Cardiac Sensitization

COPIES

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THE UNIVERSITY OF CHICAGO

John H. Paulson, M. D.  
Director

1954

Dr. Allen J. Fleming, M. D.  
Assistant Director

**POOR COPY**

Kitchen Tests on "Freon" Refrigerants HL-0023-45

The following table summarizes the results of the kitchen tests carried out on Sept. 20 and 21 at the Jackson Laboratory. Male guinea pigs weighing about 500 grams were the test animals employed. The guinea pigs were exposed in each case for 6 hours to a concentration of 10 lbs. of the particular refrigerant in 1000 cubic feet of air (approximately 1% by volume). They were observed for one week after exposure and then sacrificed for pathology studies.

**TABLE I**

<u>G.P. No.</u>	<u>Compound</u>	<u>Respiration</u>	<u>Weight Changes</u>	<u>Pathology</u>
3047	F-12	Not affected	Good gain	No gross or microscopic.
3048	F-12		" "	
3050	F-22	Sl. labored	" "	No gross path. Microscopic: 1 area of focal congestion in lung.
3051	F-22	Not affected	" "	No gross or microscopic.
3057	F-113	Sl. labored	Loss	Both g.p. died over weekend of Sept. 22 of acute hemorrhagic pulmonary edema.
3058	F-113		Loss	
3061	F-113	Not affected	Good gain	No gross or microscopic.
3062	F-113	" "	" "	" " " "
3066	F-23	" "	" "	" " " "
3067	F-23	" "	" "	" " " "
3068	F-14	" "	Moderate gain	" " " "
3069	F-14	" "	" "	" " " "
3071	F-124A	" "	Good gain	Sl. edema of cortex of brain at base.
3073	F-124A	" "	Moderate gain	No gross or microscopic.
3075	F-218	" "	" "	No gross. Lung shows sl. congestion and some fluid in bronchi.
3076	F-218	" "	Sl. gain	No gross or microscopic.
3080	F-21	Labored	Loss followed	Congestion of lungs, liver and kidney. Liver shows congestion around hepatic veins.
3081	F-21	breathing	by sl. gain	No brain pathology.
3082	FF-1	Not affected	Good gain	Sl. focal congestion in lung.
3088	FF-1	" "	Moderate gain	No gross or microscopic.
3091	Controls	--	Good gain	" " " "
3095				
3097				
3045				

\* The weight changes are those that took place during the week following exposure.

Summary

These acute tests indicate that F-113 and F-21 are fairly toxic to guinea pigs in the above concentrations. Guinea pigs exposed to F-14 and F-218 did not gain weight satisfactorily following exposure. The other refrigerants did not produce any significant change in the test guinea pigs.

AJF:van  
11-5-45

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