



M.B. Research Laboratories, Inc.

1695<sup>01/24</sup>

steinsburg and wentz roads  
post office box 203  
spinnerstown, pennsylvania 18968  
215-536-4110

Project number MB76-1449

Date: January 24, 1977

Report to: Research Institute For Fragrance Materials, Inc.

Submitted by: D. L. Opdyke, Ph.D.

Sample marking: 76-30, Butyl lactate

Test: Acute Oral Toxicity in Rats  
Dermal Toxicity in Rabbits

RESULTS:

	Oral	Dermal
A. LD <sub>50</sub> - g/kg	greater than 5.0	greater than 5.0
Mortality	0/10	0/10

B. Distribution of Mortality

Route	Dose g/kg	Deaths/ No. of Animals	Observation Day														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Oral	5	0/10															

Dermal 5 0/10

C. Symptomatology Diarrhea in 1 rabbit on Day 1

D. Skin Irritation  
Moderate redness - 8  
Marked redness - 2  
Slight edema - 1  
Moderate edema - 9

Respectfully submitted,

*Oscar M. Moreno*

Oscar M. Moreno, Ph.D.  
President

RIFM 0643

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Project number MB 76-1451

Date: January 24, 1977

Report to: Research Institute For Fragrance Materials, Inc.

Submitted by: D. L. Opdyke, Ph.D.

Sample marking: 76-221, Oleic acid

Test: Acute Oral Toxicity in Rats  
Dermal Toxicity in Rabbits

RESULTS:

		Oral	Dermal
A. LD	- g/kg	greater than 5.0	greater than 5.0
	50		
Mortality		0/10	0/10

B. Distribution of Mortality

Route	Dose g/kg	Deaths/ No. of Animals	Observation Day														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Oral	5	0/10															

Dermal 5 0/10

C. Symptomatology None

D. Skin Irritation

Moderate redness - 10  
Slight edema - 4  
Moderate edema - 6

Respectfully submitted,

*Oscar M. Moreno*

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President



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Project number MB 76-1457

Date: January 24, 1977

Report to: Research Institute For Fragrance Materials, Inc.

Submitted by: D. L. Opdyke, Ph.D.

Sample marking: 76-333, delta-Dodecalactone

Test: Acute Oral Toxicity in Rats  
Dermal Toxicity in Rabbits

RESULTS:

		Oral	Dermal
A. LD	- g/kg	greater than 5.0	greater than 5.0
	50		
	Mortality	0/10	0/10

B. Distribution of Mortality

Route	Dose g/kg	Deaths/ No. of Animals	Observation Day															
			1	2	3	4	5	6	7	8	9	10	11	12	13	14		
Oral	5	0/10																

Dermal 5 0/10

C. Symptomatology None

D. Skin Irritation

Moderate redness and edema in 10

Respectfully submitted,

*Oscar M. Moreno*

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President

RIFM 0645



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Project number MB 76-1458

Date: January 24, 1977

Report to: Research Institute For Fragrance Materials, Inc.

Submitted by: D. L. Opdyke, Ph.D.

Sample marking: 76-353, Muscone

Test: Acute Oral Toxicity in Rats  
Dermal Toxicity in Rabbits

RESULTS:	Oral	Dermal
A. LD - g/kg	greater than 5.0	greater than 5.0
50		
Mortality	0/10	1/10

B. Distribution of Mortality

Route	Dose g/kg	Deaths/No. of Animals	Observation Day																
			1	2	3	4	5	6	7	8	9	10	11	12	13	14			
Oral	5	0 0/10																	

Dermal 5 1/10 1

C. Symptomatology Diarrhea in 1 rabbit on Day 1

D. Skin Irritation Moderate redness in 10  
Slight edema in 3, Moderate edema in 7

E. Necropsy Observation - liver dark, intestines slightly red and fecal matter dried around anal region in one which died.

Respectfully submitted,  
*Oscar M. Moreno*  
Oscar M. Moreno, Ph.D.  
President



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Project number MB 76-1464

Date: January 24, 1977

Report to: Research Institute For Fragrance Materials, Inc.

Submitted by: D. L. Opdyke, Ph.D.

Sample marking: 76-102, 2-Ethyl Hexanol

Test: ~~Acute Oral Toxicity in Rats~~  
Dermal Toxicity in Rabbits

RESULTS:

~~Oral~~

Dermal

A. LD <sub>50</sub> - g/kg  
Mortality

greater than 5.0

1/10

B. Distribution of Mortality

Route	Dose g/kg	No. of Animals	Deaths/													
			Observation Day													
			1	2	3	4	5	6	7	8	9	10	11	12	13	14

~~Oral~~

Dermal 5 1/10

1

C. Symptomatology None

D. Skin Irritation Moderate redness and edema in 10

E. Necropsy observation - normal in 1 which died.

Respectfully submitted,

*Oscar M. Moreno*

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Project number MB 76-1465

Date: January 24, 1977

Report to: Research Institute For Fragrance Materials, Inc.

Submitted by: D. L. Opdyke, Ph.D.

Sample marking: 76-103, 2-Ethyl Hexyl Acetate

Test: ~~acute oral toxicity in rats~~  
Dermal Toxicity in Rabbits

RESULTS:

A. LD - g/kg  
50  
Mortality

~~oral~~

Dermal

greater than 5.0

1/10

B. Distribution of Mortality

Route	Dose g/kg	No. of Animals	Deaths/													
			Observation Day													
<del>oral</del>			1	2	3	4	5	6	7	8	9	10	11	12	13	14

Dermal 5 1/10

1

C. Symptomatology None

D. Skin Irritation

Moderate redness in 10  
Slight edema in 4  
Moderate edema in 6

E. Necropsy observation - normal in 1 which died.

Respectfully submitted,

*Oscar M. Moreno*

Oscar M. Moreno, Ph.D.  
President



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