

CODING FORMS FOR SRC INDEXING

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Contractor		FOOD & DRUG RESEARCH LABS INC	
Document Title		PRIMARY SKIN IRRITATION STUDY IN RABBITS WITH DIMETHYLPOLYSILOXANE	
Chemical Category		DIMETHYLPOLYSILOXANE (CAS# 63148-62-9)	

OFFICE OF TOXIC SUBSTANCES  
CODING FORM FOR GLOBAL INDEXING

REV. 7/27/82

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FOOD AND DRUG  
*Research* LABORATORIES, INC.

WAVERLY DIVISION  
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(607) 565-2831

R E P O R T

Submitted to: General Electric Co.  
Waterford,  
New York 12188

Date: June 5, 1978

Laboratory No. 5913<sub>b</sub>

Sample: Colorless viscous liquid; 16 oz.

**Contains No CBI**

Marking: SF96-350; CHOH; 20 ppm.

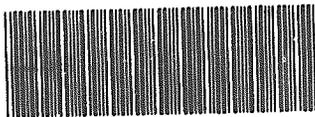
Examination Requested: Primary Skin Irritation Study with Rabbits

Purpose: To determine the effects of the test material when applied to the rabbit's skin.

Procedure: The acute skin irritation test was conducted on 6 adult albino rabbits selected from healthy, acclimated animals. The method employed is patterned after the Draize procedure as described in 16 CFR 1500.41. The back of each animal was shaved free of hair; intact skin was exposed on the left half of the shaved area, and the abraded on the right half. The material (0.5 ml or 0.5 g) was introduced under a square patch of surgical gauze measuring 1 inch x 1 inch. Patches were removed after 24 hours and observations recorded. Observations were again made after 72 hours.

Results: Scoring of the effects produced by the test material is shown in Table 1. Erythema was observed in the intact and abraded skin of three animals. This effect cleared in the intact and abraded skin of one animal during the 72-hour observation period. Edema was not observed.

Conclusion: SF96-350; CHOH; 20 ppm was determined to be slightly irritating to the skin of rabbits.



86940001590

John G. Babish, Ph.D.  
Staff Toxicologist  
Waverly Research Center



Table 1  
 Primary Skin Irritation Scores of Rabbits\*  
 (Dosed with General Electric  
 SF96-350; CHOH; 20 ppm)

Findings	Time (Hours)	Exposure Unit (Value)					
		- - - - -Rabbit No.- - - - -					
		1	2	3	4	5	6
<b>Erythema and eschar formation:</b>							
Intact Skin	24	1	1	0	0	2	0
" "	72	0	1	0	0	1	0
Abraded skin	24	1	1	0	0	2	1
" "	72	0	1	0	0	1	1
Subtotal - - - - -		2	4	0	0	6	2
<b>Edema formation:</b>							
Intact Skin	24	0	0	0	0	0	0
" "	72	0	0	0	0	0	0
Abraded Skin	24	0	0	0	0	0	0
" "	72	0	0	0	0	0	0
Subtotal - - - - -		0	0	0	0	0	0
Total - - - - -		2	4	0	0	6	2
Score - - - - -		0.50	1.00	0	0	1.50	0.50

Average = 0.58

\* Scoring Criteria:

Mean Primary Irritation Score  
 (Range of Values)

Descriptive Rating

- 0.00 - 0.09
- 0.10 - 0.50
- 0.51 - 1.50
- 1.51 - 3.00
- 3.01 - 5.00
- 5.01 - 6.50
- 6.51 - 8.00

- Non-Irritating
- Minimally Irritating
- Slightly Irritating
- Mildly Irritating
- Moderately Irritating
- Severely Irritating
- Extremely Irritating

\* J. of the Society of Cosmetic Chemists, Vol. 13, No. 6, 1962,  
 p. 281-289.

Skin Reaction Code

	<u>Value</u>
Erythema and eschar formation:	
No erythema .....	0
Very slight erythema (barely perceptible).....	1
Well-defined erythema .....	2
Moderate to severe erythema .....	3
Severe erythema (beet redness) to slight eschar formations (injuries in depth) .....	4
Edema formation:	
No edema .....	0
Very slight edema (barely perceptible) .....	1
Slight edema (edges of area well defined by definite raising) .....	2
Moderate edema (raised approximately 1 millimeter) ..	3
Severe edema (raised more than 1 millimeter and extending beyond the area of exposure) .....	4



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