

Report To

E. I. duPont deNemours and Company

On

The Contact Sensitizing Potential of Paint Samples 2 and 7

5935 - Enamel, White, Polyurethane 9350-35C
 5936 - Activator 9350-35C
 5937 - Promotor 9350-35C
 5948 - Enamel, White 183-508
 5949 - Thinner 3810

Submitted By

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 Philadelphia, Pennsylvania 19101

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STUDY SYNOPSIS

OBJECTIVE

To evaluate the contact sensitizing potentialities of two paints.

MATERIALS

The two experimental paints were supplied by the Haskell Laboratories of the E. I. duPont deNemours and Company and were identified as follows:

Sample 2	Part A	H-5935
	Part B	H-5936
	Part C	H-5937

Sample 7	Part A	H-5948
	Part B	H-5949

SUBJECTS

Twenty-five healthy adult males were utilized.

METHOD

The experimental paints were mixed according to the protocol directions two hours before application each day.

The experimental paints were applied to one-inch square skin sites on the volar forearms of all subjects for a total of fifteen applications on alternate days. A cotton tipped applicator was used to apply the paint. Before each new application the dried paints were removed by peeling. Following a two-week rest period the paints were applied to new skin sites and evaluated twenty-four and forty-eight hours later.

RESULTS

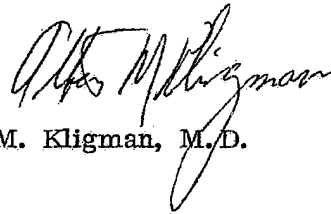
The results are recorded in the accompanying tables.

No subject presented signs of having become sensitized. During induction some mild irritation was noted, usually erythema and slight glazing. Removing the paint each time may have contributed to this slight non-allergic inflammation. None of the subjects reported any itching, burning or other subjective symptoms associated with contact allergy.

CONCLUSIONS

Neither paint sample 2 or 7 induced any cases of contact sensitization. The contact sensitization capacity of these paints is very low and not likely to be a significant hazard under conditions of actual use.

Respectfully submitted,

A handwritten signature in dark ink, appearing to read 'Albert M. Kligman', is written over the typed name.

Albert M. Kligman, M.D.

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Contact Sensitizing Potential of Paint Samples

- Subject Data -

Subject No.	Initials	Age	Weight	Race
1	A. H.	45	195	N
2	H. O.	31	170	W
3	J. W.	37	167	W
4	R. C.	23	150	W
5	V. B.	26	175	N
6	G. W.	48	165	W
7	H. C.	35	192	N
8	W. B.	30	178	W
9	S. V.	33	208	N
10	J. R.	28	159	N
11	B. H.	23	150	W
12	E. A.	48	175	N
13	H. M.	28	149	N
14	R. B.	34	145	N
15	B. T.	21	172	N
16	W. W.	47	180	N
17	C. E.	35	160	N
18	P. M.	32	165	N

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Contact Sensitizing Potential of Paint Samples

- Subject Data -

Subject No.	Initials	Age	Weight	Race
19	W. A.	33	157	N
20	C. B.	44	185	N
21	W. H.	33	160	N
22	R. G.	43	170	P. R.
23	P. S.	29	160	N
24	W. C.	24	159	N
25	G. M.	33	180	N

TABLE I
PAINT SAMPLE 2

Subject No.	INDUCTION														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	0	0	0	0+	0+	0+	0+	0+	0+	0+	0+	0+	0+	0+	0+
2	0	0	0	0	0	0	0+	0+	0+	0+	0+	0+	0+	0+	0+
3	0	0	0	DISCHARGED											
4	0	0	0	0	0+	0+	0+	0+	0+	0+	0+	0+	1	1	1
5	0	0	0	0	0	0	0+	0+	0+	0+	0+	0+	0+	0+	0+
6	0	0	0	0	0	0+	0+	0+	0+	0+	0+	0+	0+	0+	0+
7	0	0	0	0	0	0	0	0	0	0	0	0	0+	0+	0+
8	0	0	0	0	0	0	0+	0+	0+	0+	0+	0+	0+	0+	0+
9	0	0	0	0	0	0	0	0	0	0	0	0+	0+	0+	0+
10	0	0	0	0	0	0	0	0+	0+	0+	0+	0+	0+	0+	0+

TABLE I
PAINT SAMPLE 2

Subject No.	INDUCTION														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
11	0	0	0	0	0	0	0	0	0	0	0	0+	0+	0+	0+
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0+	0+	0+	0+	0+	0+	0+	0+	0+	0+
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0+	0+	0+	0+	0+	0+	0+	0+	0+
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0+	0+	0+	0+	0+	0+
18	0	0	0	0+	0+	0+	0+	0+	0+	0+	0+	0+	0+	0+	0+
19	0	0	0	DISCHARGED											
20	0 ₀	0	0	0	0	0	0+	0+	0+	0+	0+	0+	0+	0+	1

TABLE 1
PAINT SAMPLE 2

Subject No.	INDUCTION														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0+	0+	0+	DISCHARGED								
23	0	0	0	0+	0+	0+	0+	0+	0+	0+	0+	0+	0+	0+	0+
24	0	0	0	0	0	0	0	0	0+	0+	0+	1	1	1	1
25	0	0	0	0	0	0	0	0	0	0	0	0	0+	0+	0+

TABLE II

PAINT SAMPLE 7

Subject No.	I N D U C T I O N															C H A L L E N G E	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	24	48
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0+	0+	0+	0+	0+	0+	0+	0+	0+	0	0
3	0	0	0	DISCHARGED													
4	0	0	0	0+	0+	0+	0+	0+	0+	0+	0+	0+	0+	0+	0+	0	0
5	0	0	0	0	0	0	0	0+	0+	0+	0+	0+	0+	0+	0+	0	0
6	0	0	0	0	0	0	0	0	0	0+	0+	0+	0+	0+	0+	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0+	0+	0+	0+	0	0
8	0	0	0	0	0	0	0+	0+	0+	0+	0+	0+	0+	0+	0+	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0+	0+	0	0
10	0	0	0	0	0	0	0	0	0	0+	0+	0+	0+	0+	0+	0	0

TABLE II

PAINT SAMPLE 7

Subject No.	I N D U C T I O N										C H A L L E N G E								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	24	48		
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0+	0+	0	0		
13	0	0	0	0	0	0+	0+	0+	0+	0+	0+	0+	0+	0+	0+	0	0		
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
17	0	0	0	0	0	0	0	0	0	0	0+	0+	0+	0+	0+	0	0		
18	0	0	0	0	0	0	0	0	0+	0+	0+	0+	0+	0+	0+	0	0		
19	0	0	0	DISCHARGED															
20	0	0	0	0	0	0	0	0+	0+	0+	0+	0+	0+	0+	0+	0	0		

TABLE II
PAINT SAMPLE 7

Subject No.	I N D U C T I O N														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0+	0+	DISCHARGED								
23	0	0	0	0	0	0+	0+	0+	0+	0+	0+	0+	0+	0+	0+
24	0	0	0	0	0	0	0	0	0	0	0+	0+	0+	0+	0+
25	0	0	0	0	0	0	0	0	0	0	0	0	0+	0+	0+

- K E Y -

INDUCTION:

0	-	No reaction
0+	-	Faint erythema
1	-	Brisk erythema
2	-	Brisk erythema peeling
3	-	Erosion
4	-	Ulceration

CHALLENGE:

0	-	No reaction
1	-	Erythema edema
2	-	Erythema edema vesicles
3	-	Erythema edema spreading tiered vesicles
4	-	Tiered weeping vesicles