

January 31, 1958

Mr. R. L. Reynolds
Solvay Process Division
Allied Chemical & Dye Corporation
61 Broadway
New York 6, New York

Dear Mr. Reynolds:

Enclosed please find report of our Repeated Insult Patch Test Study with two materials as authorized in your Purchase Order #ES-15-457-D, dated November 14, 1957. The two materials studied were:

1. Allied Chemical & Dye Corporation - Methylene Chloride
2. Allied Chemical & Dye Corporation - Hair Spray Concentrate

The above materials were studied on fifty human volunteers according to the method of Shelanski and Shelanski (Proceedings Of The Toilet Goods Association, Number 19, May, 1953).

The Methylene Chloride, supplied as a liquid, was applied directly to the patch.

The hair spray concentrate was sprayed directly on- to the patches until saturation.

During the course of this study none of the subjects reacted at any time to either material. From these results we may conclude that Allied Chemical & Dye Corporation - Methylene Chloride and the hair spray concentrate are neither primary irritants nor fatiguing agents. We may also conclude with 95% certainty that these materials, if they are sensitizers at all, will be sensitizers to less than 6% of the consumer population. It is not possible to obtain more significant results with the use of only fifty subjects.

If there are any questions concerning this report please let me know and I will be glad to discuss them with you. Thank you for this opportunity of being of service to you.

Sincerely,

INDUSTRIAL BIOLOGY RESEARCH
AND TESTING LABORATORIES, INC.

Morris V. Shelanski, M.D., C.M.
Director

MVS/ld
Enc.

ASI 000015832

REPEATED INSULT PATCH TEST

WITH

ALLIED CHEMICAL & DYE CORPORATION - METHYLENE CHLORIDE

ALLIED CHEMICAL & DYE CORPORATION-HAIR SPRAY CONCENTRATE

Purpose: To determine the safety of use of Allied Chemical & Dye Corporation - Methylene Chloride and Allied Chemical & Dye Corporation - Hair Spray Concentrate when in contact with the human skin according to the Shelanski Repeated Insult Patch Test Method.

Materials: 1. Allied Chemical & Dye Corporation - Methylene Chloride.
2. Allied Chemical & Dye Corporation - Hair Spray Concentrate.

Procedure: Patch tests were conducted on fifty human volunteers according to the method of Shelanski and Shelanski (Proceedings Of The Toilet Goods Association, Number 19, May, 1953).

The Methylene Chloride, supplied as a liquid, was applied directly to the patch.

The Hair Spray Concentrate was sprayed directly on-to the patch until the same degree of saturation of the patch was attained as with the Methylene Chloride.

Results: The accompanying charts show the various reactions after each application.

Conclusions: Allied Chemical & Dye Corporation-Methylene Chloride

This material in contact with the human skin is neither a primary irritant nor a sensitizer. It is not a fatiguing agent. It may be considered safe to use in contact with the human skin according to the directions of the manufacturer.

Hair Spray Concentrate

ASI 000015833

This material in contact with the human skin is neither a primary irritant nor a sensitizer. It is not a fatiguing agent. It may be considered safe to use in contact with the human skin according to the directions of the manufacturer.

Conclusions: (Continued from Page 1)

In using fifty human subjects for these tests we can state with 95% statistical certainty that the material tested will be a sensitizer to less than 6% of the consumer population inasmuch as none of the fifty subjects showed any sensitizing reactions.

INDUSTRIAL BIOLOGY RESEARCH
AND TESTING LABORATORIES, INC.

(Signed)

MORRIS V. SHELANSKI, M.D., C.M.
Director

MVS:ld

January 31, 1958

ASI 000015834

REPEATED INSULT PATCH TEST

WITH

ALLIED CHEMICAL AND DYE CORPORATION - METHYLENE CHLORIDE

No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	C
1	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
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	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
6	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
8	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
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	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
13	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
15	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
17	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
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	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	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ASI 000015835

REPEATED INSULT PATCH TEST

WITH

ALLIED CHEMICAL AND DYE CORPORATION - METHYLENE CHLORIDE

No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	C
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ASI 000015836

ALLIED CHEMICAL AND DYL CORPORATION - METHYLENE CHLORIDE

RESULTS

No. of subjects negative throughout 50
No. of subjects showing reactions 0

Number of Application	0	1+	2+	3+
1	50	0	0	0
2	50	0	0	0
3	50	0	0	0
4	50	0	0	0
5	50	0	0	0
6	50	0	0	0
7	50	0	0	0
8	50	0	0	0
9	50	0	0	0
10	50	0	0	0
11	50	0	0	0
12	50	0	0	0
13	50	0	0	0
14	50	0	0	0
15	50	0	0	0
Sub Total	750	0	0	0
Challenge	50	0	0	0
TOTAL	800	0	0	0

ASI 000015837

REPEATED INSULT PATCH TEST

WITH

ALLIED CHEMICAL AND DYE CORPORATION 7 Hair Spray Concentrate

No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	C
1	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
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	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
6	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
8	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
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	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
13	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
15	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
17	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
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	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	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ASI 000015838

REPEATED INSULT PATCH TEST

WITH

ALLIED CHEMICAL AND DYE CORPORATION - Hair Spray Concentrate

No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	C
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ASI 000015839

ALLIED CHEMICAL AND DYE CORPORATION -/ Hair Spray Concentrate

RESULTS

No. of subjects negative throughout 50
No. of subjects showing reactions 0

Number of Application	0	1+	2+	3+
1	50	0	0	0
2	50	0	0	0
3	50	0	0	0
4	50	0	0	0
5	50	0	0	0
6	50	0	0	0
7	50	0	0	0
8	50	0	0	0
9	50	0	0	0
10	50	0	0	0
11	50	0	0	0
12	50	0	0	0
13	50	0	0	0
14	50	0	0	0
15	50	0	0	0
Sub Total	750	0	0	0
Challenge	50	0	0	0
TOTAL	800	0	0	0

ASI 000015840