

Copies to: [REDACTED]

E. I. du Pont de Nemours and Company
Haskell Laboratory for Toxicology and Industrial Medicine
HASKELL LABORATORY REPORT NO. 430-77 MR NO. [REDACTED]

Material Tested	Haskell No.	Sample Ready For Testing	Other Codes	Material Submitted
[REDACTED]	11,134	3-7-77	[REDACTED]	[REDACTED] Textile Fibers Department, Seaford

PRIMARY SKIN IRRITATION AND SENSITIZATION TESTS ON GUINEA PIGS

Procedure: The test for primary irritation was conducted by applying, and lightly rubbing in, 1 drop (≈ 0.05 ml) each of a 50% and a 5% solution (vol/vol) of the test material in distilled water on the shaved intact shoulder skin of 10 male albino guinea pigs.⁵ To test for the sensitization potential, a series of four sacral intradermal injections was given, one each week over a three-week period, which consisted of 0.1 ml of a 1% solution (vol/vol) of test material in 0.9% saline. Following a two-week rest period, the test animals were challenged for sensitization by applying, and lightly rubbing in, 1 drop (≈ 0.05 ml) each of a 50% and a 5% solution (vol/vol) of test material in distilled water on the shaved intact shoulder skin. A group of 9 previously unexposed guinea pigs received similar applications at the time of challenge to provide a direct comparison of the challenge reactions on skin of similar age. After an additional one week rest period, the animals were rechallenged following the same procedure as for the challenge as a further check for sensitization.

Results:

Reactions* on Intact Guinea Pig Skin				
Concentration in distilled water	Test Areas (10 Animals - In. Avg. Wt. = 569 g Avg. Wt. = 738 g Rechallenge Avg. Wt. = 758 g)		Control Areas for Challenge Test (9 New Animals - Average Wt. = 677 g Rechallenge Average Wt. = 703 g)	
	50%	5%	50%	5%
Primary Irritation Test-24 Hours	10 neg.	10 neg.		
-48 Hours	10 neg.	10 neg.		
Challenge Test-24 Hours	1+, 4+, 5 neg.	1+, 9 neg.	9 neg.	9 neg.
-48 Hours	4+, 6 neg.	10 neg.	9 neg.	9 neg.
Sensitization Response Ratio**		1/10		
Rechallenge Test-24 Hours	1+, 6+, 3 neg.	10 neg.	1+, 8 neg.	9 neg.
-48 Hours	5+, 5 neg.	10 neg.	1+, 8 neg.	9 neg.
Sensitization Response Ratio**		1/10		

Company Sanitized. Does not contain TSCA

Summary: [REDACTED] (H-11,134) produce no irritation when tested as a 50% and a 5% solution in distilled water on the shaved intact skin of male albino guinea pigs. The test for sensitization indicated that 1/10 animals was sensitized with mild to very mild reactions observed in several others. A similar difference in response of test over control animals was seen when rechallenged. This material is a weak sensitizer; therefore, skin contact should be avoided, with immediate washing if contact should occur.

Δ Other name [REDACTED]

Composition: [REDACTED]

- * Reaction Code: +, ++, +++ = mild, moderate, strong erythema; ++++ = erythema plus edema; +++++ = necrosis.
- ** Sensitization is defined as a significant score increase at challenge over the response expected from the same amount applied initially or on the concurrent controls.
- § Preliminary range-finding data indicated mild irritation when tested as received (100%).

Report by:

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[REDACTED]
NCG:ms

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