

REVISED

E. I. du Pont de Nemours and Company
Haskell Laboratory for Toxicology and Industrial Medicine

HASKELL LABORATORY REPORT NO. 694-75

Material Tested	Haskell No.	Sample Ready for Testing	Other Codes	Material Submitted by
[REDACTED]	9805	9/4/75	[REDACTED]	[REDACTED] Organic Chemicals Department, Jackson Laboratory

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 material as received and a 10% solution (wt./vol.) of the test material in distilled water on the shaved intact shoulder skin of 10 male albino guinea pigs. 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 (wt./vol.) of test material in 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 material as received and a 10% solution (wt./vol.) of test material in distilled water on the shaved intact shoulder skin. A group of 10 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.

Results:

	Reactions* on Intact Guinea Pig Skin			
	Test Areas		Control Areas for Challenge Test	
	(10 Animals - In. Avg. Wt. = 533 g Final Avg. Wt. = 729 g)		(10 New Animals - Average Wt. = 701 g)	
Concentration in distilled water	100% (undiluted)	10%	100% (undiluted)	10%
Primary Irritation Test				
24 Hours	9 ⁺ , 1 neg.	10 neg.		
48 Hours	9 ⁺ , 1 neg.	10 neg.		
Challenge Test				
24 Hours	5 ⁺⁺ , 4 ⁺	10 neg.	4 ⁺⁺ , 6 ⁺	10 neg.
48 Hours	4 ⁺⁺ , 6 ⁺	10 neg.	3 ⁺⁺ , 7 ⁺	10 neg.
Sensitization Response Ratio**	0/10			

* 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.

Company Sanitized. Does not contain TSCA CB

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Summary: [REDACTED] produced mild to moderate irritation when tested on shaved, intact skin of male albino guinea pigs using the material as received (100%) and a 10% solution in distilled water. No sensitization was observed at challenge; however, this material is a skin irritant. All skin contact with this material should be avoided. Should skin contact occur, wash off promptly with water.

[REDACTED]

[REDACTED]

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