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

HASKELL LABORATORY REPORT NO. 276-73 [REDACTED]

Material Tested	Haskell No.	Other Codes	Submitted by
[REDACTED]	7944	[REDACTED]	[REDACTED]

Organic Chemicals Department

PRIMARY SKIN IRRITATION AND SENSITIZATION TESTS ON GUINEA PIGS

Procedure: The test for primary irritation was conducted by applying, and lightly rubbing in, one drop (~ 0.05 ml) of a 50% and undiluted 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 1.0% solution (wt/vol) of test material in distilled water. Following a two-week rest period, the test animals were challenged for sensitization by applying, and lightly rubbing in, one drop (~ 0.05 ml) of a 50% and undiluted 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. = 475 g Final Avg. Wt. = 704 g)		(10 New Animals - Average Wt. = 720 g)	
		As Received	50%	As Received	50%
Concentration in distilled water					
Primary Irritation Test					
24 Hours		10 negative	10 negative		
48 Hours		10 negative	10 negative		
Challenge Test					
24 Hours		10 negative	10 negative	10 negative	10 negative
48 Hours		10 negative	10 negative	10 negative	10 negative
Number of animals sensitized**					

0/10

Summary: [REDACTED] produced no irritation or sensitization when tested on guinea pig skin at 50% concentration in distilled water and when undiluted. Although no serious skin reactions occurred, good industrial hygiene practices should be used when handling an chemical.

- * Reaction Code: +, ++, +++ = mild, moderate, strong erythema; ++++ = erythema plus edema; +++++ = necrosis.
- ** Sensitization is defined as a two-step score increase (++) at challenge over the response expected from the same amount applied initially or on the concurrent controls.

Report by:

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