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E. I. du Pont de Nemours and Company
Haskell Laboratory for Toxicology and Industrial Medicine
HASKELL LABORATORY REPORT NO. 144-78 [REDACTED]

Material Tested	Haskell No.	Sample Ready for Testing	Other Codes	Material Submitted by
[REDACTED]	11,921	1/6/78	[REDACTED]	[REDACTED] Chemicals, Dyes and Pigments, Chambers Works

PRIMARY SKIN IRRITATION AND SENSITIZATION TESTS ON GUINEA PIGS

Procedure: A range finding test was conducted with the test material to determine a no to minimally irritating concentration. After this concentration was determined, the test for primary irritation was conducted by applying, and lightly rubbing in, 1 drop (~0.05 ml) of a 100% and 10% suspension (vol./vol.) of the test material in acetone 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 (vol./vol.) of test material in dimethyl phthalate. Following a two-week rest period, the test animals were challenged for sensitization by applying, and lightly rubbing in, 1 drop (~0.05 ml) of a 100% and 10% suspension (vol./vol.) of test material in acetone 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. = 490 g Final Avg. Wt. = 645 g)		(10 New Animals - Average Wt. = 642 g)	
Concentration in acetone	100%	10%	100%	10%
Primary Irritation Test				
24 Hours	1+, 9 neg.	10 neg.		
48 Hours	10 neg.	10 neg.		
Challenge Test				
24 Hours	2+, 8 neg.	10 neg.	-, 9 neg.	10 neg.
48 Hours	10 neg.	10 neg.	10 neg.	10 neg.
Sensitization Response Ratio**	0/10			

Summary: [REDACTED] produced slight to no irritation in 24 hours and no irritation at 48 hours when tested as received on the shaved intact skin of guinea pigs. As a 10% suspension, no irritation was observed. At challenge, none of the test animals showed a sensitization response. No dermatitis hazard is expected from the handling of this material if good industrial hygiene practices are followed.

* 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.

Report by: Doris F. Edwards

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DPE:ldc
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