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E. I. du Pont de Nemours and Company
Haskell Laboratory for Toxicology and Industrial Medicine
Elkton Road, Newark, Delaware 1971.

HASKELL LABORATORY REPORT NO. 71-81 [REDACTED]

<u>Material Tested</u>	<u>Haskell No.</u>	<u>Other Codes</u>
[REDACTED]	13,861	[REDACTED]

Study Initiated/Completed
12/11/80 - 1/23/81

Material Submitted By
[REDACTED]
Chemicals & Pigments Dept.
Jackson Laboratory

PRIMARY SKIN IRRITATION AND SENSITIZATION TEST ON GUINEA PIGS

Procedure: A range-finding study was conducted with 3 male albino guinea pigs to test for skin irritation potential. This material was a skin irritant as low as 25% in distilled water; it did not irritate the skin at 5%.†

The primary irritation test was conducted on 10 unexposed guinea pigs by applying and lightly rubbing in 0.05 ml of a 25% and 2.5% solution of the test material in distilled water on shaved, intact shoulder skin.

The induction phase for sensitization was a series of 4 sacral intradermal injections of 0.1 ml of a 1.0% solution in distilled water, 1 each week beginning 2 days ~~after~~ the test for primary irritation.

After a 14-day rest period, the test guinea pigs were challenged for sensitization by applying and lightly rubbing in 0.05 ml of a 25% and a 2.5% solution of test material in distilled water on shaved, intact shoulder skin. At the same time 10 unexposed guinea pigs (controls) of the same age received identical topical applications.

Results:

Reactions** on Intact Guinea Pig Skin

<u>Test Animals</u>	<u>Control Animals</u>
(10 Animals - In. Avg. Wt. = 550 g)	(10 Animals - In. Avg. Wt. = 545 g)
10 Animals Final Avg. Wt. = 735 g)	10 Animals Final Avg. Wt. = 749 g)

Concentration in distilled water

25%	2.5%	25%	2.5%
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Primary Irritation Test - 24 Hours

10 Neg.	10 Neg.
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- 48 Hours

7+, 3 Neg.	10 Neg.
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Challenge Test - 24 Hours

1+, 9 Neg.	10 Neg.	1+, 9 Neg.	10 Neg.
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- 48 Hours

6+, 4 Neg.	10 Neg.	6+, 4 Neg.	10 Neg.
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Sensitization Response Ratio***
at 25% Concentration - 0/10

Summary: [REDACTED] produced mild to no skin irritation when tested as a 25% solution in distilled water on the shaved intact skin of male albino guinea pigs. A 2.5% solution in distilled water produced no skin irritation. No sensitization was observed at challenge. No unusual dermatitis hazard is expected from handling this material if good industrial hygiene practices are employed, although higher concentrations (50%) can produce severe irritation.

* Composition: [REDACTED]

Synonyms: [REDACTED]

CAS Registry Number: [REDACTED]

<u>† Range Finding Results:</u>	<u>Test Material</u> <u>% (w/v)</u>	<u>Reaction on Intact</u> <u>Guinea Pig Skin</u>
	100 (As received)	2 Necrosis, 1 Moderate
	50	2 Necrosis, 1 Moderate
	25	1 Moderate, 1 Mild, 1 Neg.
	5	3 Neg.

** 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: John E. Henry
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Technician

Approved by: Gerald L. Kennedy
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JEH:jrg
Study Director: J. L. Dashiell
Date Issued: February 17, 1981
[REDACTED]
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