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Du Pont HLR 107-90

Study Title

Approximate Lethal Dose (ALD) of
[REDACTED] in Rats

Author

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Study Completed On

March 5, 1990

Performing Laboratory

E. I. du Pont de Nemours and Company, Inc.
Haskell Laboratory for Toxicology and Industrial Medicine
Elkton Road, P. O. Box 50
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[REDACTED]
[REDACTED]

Laboratory Project ID

Haskell Laboratory Report No. 107-90

GENERAL INFORMATION

Material Tested:

[REDACTED]

Medical Research No.:

[REDACTED]

Haskell No.:

18,267

Haskell Test Code:

[REDACTED]

Physical Form:

Amber dispersion

Purity:

[REDACTED]

Composition:

[REDACTED]

Synonym:

[REDACTED]

Stability:

The test material was assumed to be stable under the conditions of administration.

Sponsor:

Chemical and Pigments Department
E. I. du Pont de Nemours and Company, Inc.
Wilmington, Delaware

Material Submitted By:

[REDACTED]

Chemicals and Pigments Department
E. I. du Pont de Nemours and Company, Inc.
Jackson Laboratory
Deepwater, New Jersey

Study Initiated - Completed:

1/31/90 - 3/5/90

In-Life Phase
Initiated - Completed:

2/1/90 - 2/16/90

Notebook:

[REDACTED]

There are 7 pages in this report.

Distribution:

[REDACTED]

Approximate Lethal Dose (ALD) of
 in Rats

SUMMARY

 was administered as a single oral dose by intragastric intubation to male rats. No deaths occurred during the study and no clinical signs of toxicity were observed. Under the conditions of this test, the ALD was greater than 11,000 mg/kg of body weight. This material is considered to be very low in toxicity (ALD greater than 5000 mg/kg) when administered as a single oral dose.

Work by:

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3/5/90

JWS:alr:HLR38.18

Du Pont HLR 107-90

QUALITY ASSURANCE DOCUMENTATION

STUDY:

H# 18,267

Approximate Lethal Dose (ALD) of
in Rats

AUDITS:

<u>Items Audited</u>	<u>Audit Dates</u>
In-life Observations	2/2/90
STSPS, Records and Final Report	2/27,28/90

SHORT-TERM AUDIT REPORT NUMBER:

DATE FINDINGS REPORTED TO MANAGEMENT AND STUDY DIRECTOR: 2/28/90

Reported by:

Joseph C. Hamill
Joseph C. Hamill
Quality Assurance Auditor

2/28/90
Date

INTRODUCTION

The purpose of this test was to determine an approximate lethal dose of [redacted] when administered as a single oral dose to male rats. The ALD was defined as the lowest dose administered which caused death either on the day of dosing or within 14 days post exposure. This study was conducted according to the applicable EPA Good Laboratory Practice Regulations. Areas of noncompliance are documented in the study records. No deviations existed that significantly affected the validity of the study.

MATERIALS AND METHODS

A. Animal Husbandry

Male Crl:CD®BR rats, approximately 7 weeks old, were received from Charles River Breeding Laboratories, Raleigh, North Carolina. Rats were housed singly in suspended, stainless steel, wire-mesh cages. Each rat was assigned a unique identification number which was recorded on a card affixed to the cage. Purina Certified Rodent Chow® #5002 and water were available ad libitum. Rats were quarantined, weighed, and observed for general health for approximately one week prior to testing. Animal rooms were maintained on a timer-controlled, 12-hour light/12-hour dark cycle. Environmental conditions of the rooms were targeted for a temperature of $23 \pm 2^{\circ}\text{C}$ and relative humidity of $50 \pm 10\%$. Excursions outside these ranges were of small magnitude and/or brief duration and did not adversely affect the validity of the study.

B. Protocol

The test material was dispersed in distilled water and administered to one rat per dose rate by intragastric intubation. Dose rates administered ranged from 2300 to 11,000 mg/kg of body weight in increments of approximately 50%. Additionally, one rat was dosed at 670 mg/kg. The dosing day was test day one; postexposure day 14 was test day 15. Following administration of the test material, rats were observed for clinical signs of toxicity. Rats were weighed and observed daily until signs of toxicity subsided, and then at least 3 times per week throughout the 14-day postexposure period. Observations for mortality were made daily throughout the study.

C. Records Retention

All raw data and the final report will be stored in the archives of Haskell Laboratory for Toxicology and Industrial Medicine, E. I. du Pont de Nemours and Company, Inc., Newark, Delaware or in the Du Pont Records Management Center, Wilmington, Delaware.

RESULTS**A. Dosage and Mortality Data**

The dosage regimen and the mortality resulting over the 15-day test period are detailed below. No deaths occurred during the study.

<u>Dosage (mg/kg)</u>	<u>Dose Volume (mL)</u>	<u>Emulsion Concentration (mg/mL)</u>	<u>Initial Body Weight (g)</u>	<u>Mortality</u>
670	1.2	150	269	No
2300	4.2	150	275	No
3400	1.9	500	272	No
5000	2.6	500	261	No
7500	4.1	500	274	No
11,000	6.1*	500	279	No

* Administered in 2 portions, 15 minutes apart.

B. Clinical Signs

No clinical signs of toxicity were observed during the study.

CONCLUSION

Under the conditions of this study, the ALD for [REDACTED] was greater than 11,000 mg/kg of body weight. This material is considered to be very low in toxicity (ALD greater than 5000 mg/kg) when administered as a single oral dose to male rats.