

Study Title

Inhalation Toxicity Screen with [REDACTED]

Laboratory Project ID

HL-1997-00599

Author

David P. Kelly

Study Completed

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Performing Laboratory

E. I. du Pont de Nemours and Company
Haskell Laboratory for Toxicology and Industrial Medicine
Elkton Road, P. O. Box 50
Newark, Delaware 19714

[REDACTED]

Company Sanitized. Does not contain TSCA CB

Inhalation Toxicity Screen with

H-22484

An inhalation toxicity screen was conducted with six male rats exposed for four hours to H-22484 according to Standard Operating Procedure No. AI005-T. The test substance was aerosolized with a Spraying Systems Nebulizer. The aerosol atmosphere was analyzed by gravimetric analysis of filter samples. After filter samples were collected, the filters were immediately weighed to determine the wet aerosol concentration. After overnight drying in a desiccator, the filter samples were weighed to determine the dry aerosol weight. The mean aerosol concentrations during the four-hour exposure were 410 mg/m^3 (wet) and 400 mg/m^3 (dry). The aerosol mass median aerodynamic diameter was $4 \mu\text{m}$. During the exposure rats showed a diminished alerting response. No deaths occurred during the exposure, however all rats died within four days of exposure. Upon unloading rats from the chamber, clinical signs of toxicity observed in the rats exposed to H-22484 were irregular respiration and lethargy. Three of six rats died approximately two hours after exposure, one rat died on the day after exposure, one rat died two days after exposure and the remaining rat died three days after exposure. After the exposure rats continued to lose weight until they died. Clinical signs observed during the recovery period included lethargy, hunched posture and irregular respiration. Experimental details of the study are in laboratory notebook.

Characterization of Chamber Atmosphere

<u>Chamber Aerosol</u>			<u>Particle Size Analysis</u>					<u>Mortality</u>
Mean Conc.	SD	Range	MMAD ^a	GSD ^b	% <1 μm	% <3 μm	% <10 μm	Deaths/Exposed
(mg/m^3)								
400 (dry)	29	360 - 440	4	2.2	4	35	88	6/6

Work by: M. A. Pulliam 7.11.97
M. A. Pulliam, B.S.
Toxicology Technician

Study Director: David B. Kelly 7.11.97
David B. Kelly, B.S.
Inhalation and Cellular Toxicology

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- ^a MMAD = Mass Median Aerodynamic Diameter (μm)
^b GSD = Geometric Standard Deviation