

ORIGINAL

**TSCA NON-CONFIDENTIAL BUSINESS INFORMATION**

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DuPont Haskell Global Centers  
for Health and Environmental Sciences  
1090 Elkton Road, P.O. Box 50  
Newark, DE 19714-0050

December 11, 2009

Via Federal Express

Document Processing Center (Mail Code 7407M)  
Room 6428  
Attention: 8(e) Coordinator  
Office of Pollution Prevention and Toxics  
U.S. Environmental Protection Agency, ICC Building  
1201 Constitution Ave., NW  
Washington, DC 20004



Dear 8(e) Coordinator:

Acrylonitrile  
107-13-1

This letter is to inform you of the results of a pre-1977 (1968) acute dermal toxicity study which we recently became aware of with the test substance referenced above.

Undiluted test substance was applied to the shaved skin and trunk of male albino rabbits and wrapped with polyvinylidene chloride film, gauze and elastic adhesive tape. A plastic collar was then fitted around the neck of the animal to prevent ingestion. Dose levels were 450, 300, 200 and 130 mg/kg of body weight. After 24 hours the wrappings were removed and the skin washed with water. The survivors were observed for 15 days before being sacrificed. Autopsies were not performed.

Death occurred at 450 and 300 mg/kg on the day of treatment. The 2 remaining animals were sacrificed on day 15. The approximate lethal dose was 300 mg/kg. At lethal doses, clinical signs included eyes partially closed, initial rapid breathing then slow labored breathing, pupil constriction, cyanosis, weakness, lacrimation, twitching, convulsions, polyuria, puffy face. At non-lethal doses, similar but less severe (no cyanosis or convulsions) clinical signs were observed, and the skin became a dark purplish-blue with necrotic areas.

This information is submitted in accordance with current guidance issued by EPA indicating EPA's interpretation of Section 8(e) of the Toxic Substances Control Act or, where it is not clear that reporting criteria have been met, it is submitted as a precautionary measure and because it is information in which EPA may have an interest.

Sincerely,

*A. Michael Kaplan*

A. Michael Kaplan, Ph.D.  
Director - Regulatory Affairs



AMK: clp  
(302) 366-5260

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