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Document Title	INITIAL SUBMISSION: LETTER FROM DUPONT HASKELL LABS TO USEPA REGARDING RESULTS OF ACUTE INHALATION TOXICITY STUDY IN RATS WITH 1-PROPENE, 1,1,3,3,3-PENTAFLUORO-, DATED 01/21/00		
Chemical Category	1-PROPENE, 1,1,3,3,3-PENTAFLUORO-		

INITIAL
SUB-
MISSION

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8EHQ-0100-14638

DuPont Haskell Laboratory
for Toxicology and Industrial Medicine
Elkton Road, P.O. Box 50
Newark, DE 19714-0050

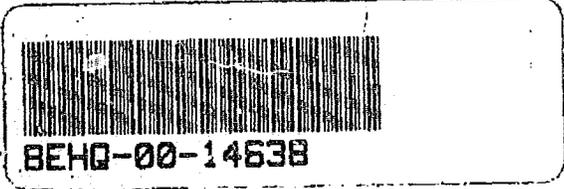


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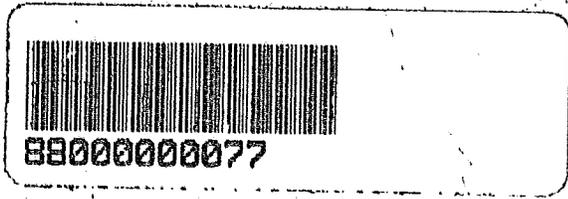
Dear 8(e) Coordinator:

1-Propene, 1,1,3,3,3-pentafluoro-
CAS# 690-27-7

This letter is to inform you of the results of an acute inhalation toxicity study conducted in rats with the above referenced test material.

Four groups of 5 male and 5 female 8-week old CrI:CD[®](SD)IGS BR rats were exposed nose-only to gas atmospheres of the test material for a single, 4-hour period. Concentrations tested included 500, 2000, 3300, and 4500 ppm. Rats were observed for clinical signs of toxicity immediately following exposure and during a 14-day recovery period. In addition, approximately 1 day prior to exposure (baseline) and approximately 1 hour and 24 hours after exposure, each rat was systematically observed for functional behavioral anomalies in an open field.

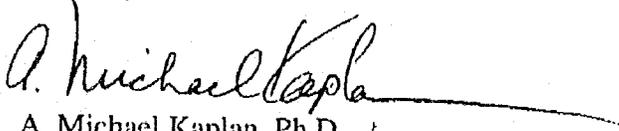
Cage-side examination of rats from the 500 ppm concentration group revealed no clinical signs of toxicity immediately following exposure or during the recovery period. Death and progressively severe clinical signs of toxicity were observed in rats from the remaining groups, and these signs included lethargy, tremors, abnormal posture, prostration, abnormal gait, splayed limbs, and spasms. All clinical signs of toxicity were reversible in surviving rats from all groups.



For neurobehavioral endpoints in the open field, all rats had scores within normal parameters on the day prior to exposure. Approximately 1 hr after exposure, rats in the 500 ppm group generally appeared to be normal except that 5/10 rats exhibited palpebral closure in the open field. One day after exposure, 2/10 of the 500 ppm rats had low arousal. These signs appeared to be transient and are sometimes identified in control rats in other studies. The lack of a concurrent control group, involving the same confinement characteristics of the nose-only exposure system, precludes a definitive neurobehavioral no-observable-adverse-effect level for this concentration. Signs identified 1 hr after exposure in the 2000 ppm group included abnormal posture, slow righting reflex, poor coordination of movement, abnormal gait, and palpebral closure in the open field. These signs were also present 1 day later, but appeared to be more severe. Mortality occurred 3-5 days after exposure for 6/10 of the rats in the 2000 ppm group. In general, the rats that died exhibited more severe behavioral effects. Some of the rats that survived until the scheduled sacrifice, however, also exhibited some behavioral effects, but to a lesser extent. Both the incidence of mortality (8/10 at 3300 ppm and 9/10 at 4500 ppm) and severity of the behavioral symptoms were greater in the 3300 and 4500 ppm groups than at 2000 ppm.

Under these experimental conditions, the findings described above appear to be reportable, based upon EPA guidance regarding the reportability of such data under TSCA Section 8(e) criteria.

Sincerely,


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

AMK/JRB:clp
(302)366-5260

CONTAINS NO CBI

CERTIFICATE OF AUTHENTICITY

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