

**ORIGINAL**

**TSCA NON-CONFIDENTIAL BUSINESS INFORMATION**

DOCUMENT DESCRIPTION	DOCUMENT CONTROL NUMBER	DATE RECEIVED
8EHQ-10-18106	88100000431	9/17/10

COMMENTS:

**DOES NOT CONTAIN CBI**



MR#  
330074

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

September 16, 2010

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

10 SEP 17 11:11:00  
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2010

8EHQ-0810-18106A



Dear 8(e) Coordinator:

Difluoromethane  
CAS # 75-10-5

DuPont received information from a third party on the above-referenced substance. DuPont has reviewed the information for reportability under TSCA §8(e) and provides below a summary of the information that has been determined to meet EPA's TSCA §8(e) criteria for reporting. It is unknown whether the information reported below has been previously reported to EPA by any third party or is otherwise considered known to the Administrator under TSCA §8(e) guidance.

Assessment of Anesthetic Potency in Mice by Inhalation:

CD-1 mice were exposed by whole body inhalation for 10 minutes in a rotating chamber, with 5 males for each exposure group. Nominal atmospheric concentrations were 7.5%, 15%, 25% or 50%. Oxygen was added to 15% - 50% test atmospheres to maintain O<sub>2</sub> concentrations at 21%. The mean measured concentrations were 7.6%, 15.0%, 27.0% and 50.5%. Exposures took place in a cylindrical whole-body glass chamber which was fitted with individual compartments for 5 mice and rotated at 2 revolutions per minute. Animals were observed during the 10 minute exposure period and at 1 and 2 hours post exposure for clinical signs and righting reflex.

The following clinical signs were observed: 7.5% - hyperactivity in terms of grooming/cleaning behavior in 5 mice at 3 min., slight apparent loss of balance in 5 mice at 8 min., half-closed eyes in 1 mouse at 9 minutes. At 15.0% - hyperactivity (grooming/cleaning) in 5 mice at 2 min., slight ataxia in 3 mice at 4 min., slight ataxia in 5 mice at 5 min., eyes half-closed and reduced locomotor activity in 1 mouse after 8 min. At 25.0% - hyperactivity (grooming/cleaning) in 5 mice at 1 min. 40 sec., slight ataxia in 5 mice at 2 min. 30 sec., reduced locomotion in 3 mice at 6 min., eyes half-closed in 5 mice at 7 min. 30 sec., reduced grooming in 5 mice at 7 min. 35 sec. At 50.0% - hyperactivity (grooming/cleaning) in 5 mice at 50 sec., moderate ataxia in 5 mice at 1 min. 40 sec., very unsteady in 5 mice at 2 min. 30 sec., lying on side, paddling of forelimbs in 5 mice at 4 min., eyes half-closed in 3 mice at 5 min. 7 sec., exaggerated paddling of forelimbs in 1 mouse at 5 min. 40 sec., nodding of head in 3 mice at 6 min. 30 sec., eyes half-closed in 5 mice at 8 min. 10 sec., paddling of forelimbs in 5 mice 8 min. 20 sec., and reduced activity in 5 mice at 9 min. 30 sec.

DCN:8810000431



**CONTAINS NO CBI**

At 1 and 2 hours after exposure all animals appeared normal. No anesthetic effects or mortality resulted from exposure of up to 50% of the test substance for 10 minutes. The observations noted led to the conclusion that the  $EC_{50}$  (10 minutes) for anesthetic potency was greater than 50%.

Sincerely,

*A. Michael Kaplan /cp*

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

AMK/GWJ: clp  
(302) 366-5260

100

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**3 To**

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