

ORIGINAL

**TSCA NON-CONFIDENTIAL BUSINESS INFORMATION**

DOCUMENT DESCRIPTION	DOCUMENT CONTROL NUMBER	DATE RECEIVED
8EHG-10-17850	8910000295	8/3/10

COMMENTS:

**DOES NOT CONTAIN CBI**



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

August 02, 2010

8EHQ-0810-17850B

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

**Public Copy**  
**No CBI**

DCN:8910000295



Dear 8(e) Coordinator:

Hydrogen fluoride (CAS Number 7664-39-3)  
8EHQ-10-17850

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.

Test substance: Hydrogen fluoride (CAS Number 7664-39-3)

- Skin Irritation Study in Rats

Sprague-Dawley rats were divided into two groups which were treated with 20% and 40% of HF. Samples of blood and treated tissues were taken at different post-treatment times for analysis of the calcium levels of the serum and for histological study. It was found that 20% of HF was enough to cause skin damage and might bring about fatal hypocalcemia after prolonged contact. High concentrations of HF (40%) caused deep tissue necrosis within a short time and resulted in fatal hypocalcemia within 24 hours even in the case of a small treated area.

- Acute Fish LC<sub>50</sub>

Based on the review of non-guideline studies, Integrated Criteria Document Fluorides reported short-term fish LC<sub>50</sub> values in the range of 51 - 340 mg F-/L.

**CONTAINS NO CBI**

- Chronic Fish Toxicity

In a 21-day test with *Oncorhynchus mykiss* a LC<sub>50</sub> value of 4 mg/L was reported (actual concentration). This value is considered to be equivalent to the NOEC for mortality. The test was conducted in very soft (12 mg CaCO<sub>3</sub>/L) natural water with daily renewal of the test water.

- Chronic Toxicity in Aquatic Invertebrates

Based on the review of non-guideline studies, Integrated Criteria Document Fluorides reported EC<sub>50</sub> values in the range of 10 - 48 mg/L. No long-term toxicity studies are available for marine invertebrates.

Sincerely,

*A. Michael Kaplan*  
(dud)

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

AMK: clp  
(302) 366-5260

Ex Ship Manager - Print Your Label(s)

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From: Origin ID: ZWIA (302) 773-0071  
Doris Duffy  
E. I. du Pont de Nemours & Co.  
1007 Market Street  
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Wilmington, DE 19898



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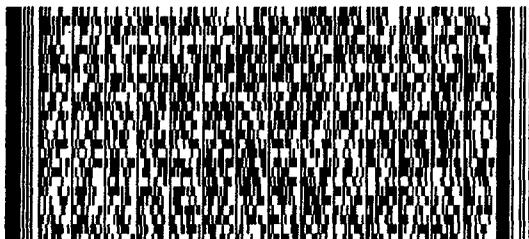
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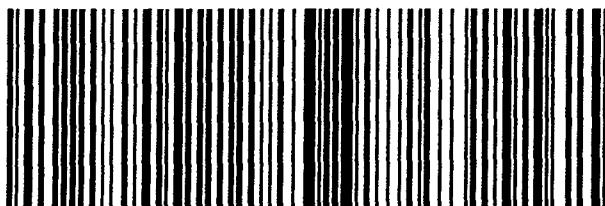


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