

ORIGINAL

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DOCUMENT DESCRIPTION	DOCUMENT CONTROL NUMBER	DATE RECEIVED
8FHQ-10-17989	88100000318	6/10/10

COMMENTS:

DOES NOT CONTAIN CBI

327546



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

8EHQ-0610-17989A
DCN: 88100000318

June 9, 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 JUN 10 PM 12: 14
RECEIVED
EPA/OPPT/CDIC

Dear 8(e) Coordinator:

Mixture containing o-Dichlorobenzene (CAS#95-50-1) 28.69%; Phenol (CAS#108-95-2) 14.45%;
Dodecylbenzenesulfonic acid, branched (CAS#68411-32-5) 22.35%; Perchloroethylene (CAS#127-18-4)
33.82%; Tetrapropylenebenzene (CAS#25265-78-5) 0.23%; Sulfuric acid (CAS#7664-93-9) 0.23%; and Sulfur
dioxide (CAS#7446-09-5) 0.02%

This letter is to inform you of the results of an acute oral and an acute inhalation study with the above referenced test mixture.

Acute Oral Toxicity:

The test mixture was administered in aqueous solution by oral gavage to groups of five male and five female Sprague-Dawley rats at doses of 1000, 1700, or 2500 mg/kg of body weight. Rats were observed for 14 days after test substance administration.

Mortalities in the 1000, 1700, and 2500 mg/kg dose groups were 0/10, 7/10, and 8/10, respectively. The acute oral median lethal dose (LD₅₀) of the test mixture in male and female rats was calculated to be 1725 mg/kg with 95% Confidence Limits of 1120 to 2657 mg/kg. Salivation was observed in all rats at all doses on the day of dosing. Hypoactivity was observed in rats dosed at 1000 mg/kg (7 rats on the day of dosing) or 1700 mg/kg (3 surviving rats up to day after dosing). Ataxia was observed in rats dosed at 1700 mg/kg (3 surviving rats on the day of dosing). Rats dosed at 1700 mg/kg (3 surviving rats on the day of dosing) and 2500 mg/kg (5 moribund rats) exhibited tremors. Hunched posture was observed in rats dosed at 1000 mg/kg (3 rats up to 4-6 days) and 1700 mg/kg (3 surviving rats up to day after dosing).

Acute Inhalation Toxicity:

The test mixture was aerosolized and the resulting test atmospheres (a mixture of vapor and aerosol) were administered for four hours by whole-body inhalation exposure to four groups of five male and five female Sprague-Dawley derived rats at target concentrations of 5.0, 1.0, 2.5 or 1.5 mg/l. The total vapor and aerosol concentrations in the test atmosphere, as determined by infrared analyzer and from gravimetric filter samples, were 3.69, 0.74, 2.03, and 1.13 mg/l with aerosol mass concentrations of 1.82, 0.35, 1.13, and 0.56 mg/l, respectively. The mass median aerodynamic diameter of the aerosol ranged from 0.56 to 0.84 µm and the geometric standard deviation ranged from 2.15 to 2.95.

CONTAINS NO CBI

Exposure to 3.69, 2.03, and 1.13 mg/l resulted in death of all rats. After exposure to 0.74 mg/l, one rat died. All animals at 0.74 mg/l exhibited decreased activity. Salivation was observed in 1 male and 3 female rats exposed to 1.13 mg/l. Prostrate posture was observed in 1 male and 2 female rats exposed to 1.13 mg/l. Under the conditions of this study, the LC_{50} in male and female rats was estimated to be 0.87 mg/l with a 95% confidence limit of 0.41 to 1.85 mg/l.

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 handwritten signature in cursive script that reads "A. Michael Kaplan".

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

AMK/CC: clp
(302) 366-5260

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2 Your Internal Billing Reference

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