



BEHQ-98-14126

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8EHQ - 0298 - 14126

5 February, 1998

Document Control Office (7407)  
ATTN: TSCA Section 8(e) Coordinator  
Office of Pollution Prevention and Toxics  
401 M Street, SW  
Washington, DC 20460-0001

RE: TSCA Section 8(e) Notification of Methyl-2-Furoate  
(When responding, please refer to JAB-98-028)

Gentlemen:

This TSCA Section 8(e) substantial risk notification concerning an acute oral toxicity study in rats with Methyl-2-Furoate is being submitted by Great Lakes Chemical Corporation. The CAS Registry Number for this chemical is 611-13-2. The Study was conducted at WIL Research Laboratories, Inc., Ashland, Ohio, under their study No. 12401. The information summarized below was received in a draft report on 26 January 1998.

The test material was administered in corn oil via gastric incubation to groups of five male and five female fasted albino rats at dose levels of 178, 300, and 507 mg/kg. Mortality, clinical findings, body weights, and gross necropsy findings were recorded.

All deaths were noted within three days of dosing. There were 0/10, 5/10, and 10/10 deaths for rats dosed at 178, 300, and 507 mg/kg, respectively. Clinical findings were noted in all dose groups, which included abnormal respiration, hyperactivity, prostration, tremors, and impaired muscle coordination. These findings were observed in a dose-response relationship. Other findings included various external material, clear ocular discharge, abnormal excretion, emaciation, vocalization, impaired use of hindquarters, hypothermia, and alopecia. All survivors, except for the sole surviving male animal at 300 mg/kg, appeared normal within 12 days of test material administration.

Pulmonary or urinary abnormalities were noted at necropsy in six of the rats that died. Intestinal, ocular, renal, hepatic or thymus findings were noted for the other animals that died. Except for one of the animals that survived to scheduled necropsy, which had red and yellow external matting, no findings were noted at the terminal necropsy.

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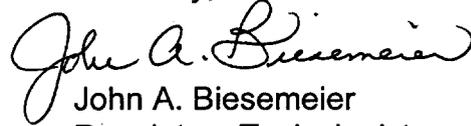
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Contains No CBI

Based on the conditions of the study the combined acute oral LD<sub>50</sub> of Methyl-2-Furoate was calculated to be 300 mg/kg.

If you have any questions, please contact me at (765) 497-6223.

Sincerely,

A handwritten signature in cursive script that reads "John A. Bieseimer".

John A. Bieseimer  
Regulatory Toxicologist  
Regulatory Affairs

JAB/dl  
Enclosure