

MR 50212

8EHQ-0701-14902

Attachment III

CORRECTED VERSION 7/23/2001

May 8, 2001



Document Processing Center (TS-790)
Attention: Section 8(e) Coordinator
Office of Pollution Prevention and Toxics
U.S. Environmental Protection Agency
401 M Street, SW
Washington, DC 20460

Contains No CBI

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Ref.: EPA Letter, June 19, 2001, questions related to organotin compound submissions by Rohm and Haas Company (8EHQ-0501-14902E).

Dear Coordinator:

Rohm and Haas Company submits this notice in accordance with Section 8(e) of the Toxic Substances Control Act.

This letter transmits results of two 90-day subchronic feeding studies with albino rats exposed to trimethyltin isooctylthioglycolate (CAS No = 54849-39-7) at dietary levels of 0, 3, 10 for the first experiment and 0, 0.1, 0.3, 1, and 3 ppm for the second experiment.

General appearance, behavior, and survival were not adversely affected at any of the dietary levels.

In the 10 ppm dose group, the following treatment-related effects were seen: decreased feed intake, and efficiency in males, decreased eosinophils in females, and increased serum phosphatase activity in both sexes. Impaired kidney function was revealed by increased activity of glutamic-oxalacetic transaminase and decrease in specific gravity of the urine. The relative kidney weights were distinctly increased, while the relative liver weights were slightly increased. Tin content of the blood was distinctly increased but there were no indications of any tin storage in the kidneys, liver, brain, or bone.

In the 3 ppm group, increased relative kidney weights were seen. Tin content of the blood was distinctly increased but there were no indications of any tin storage in the kidneys, liver, brain, or bone.

Treatment-related histopathologic changes were observed in the kidneys (degeneration of tubular cells) of males and females at 3 and 10 ppm and in the brain (necrotic pyramidal neurons of the hippocampus) in two females at 10 ppm.

It was concluded the no-toxic effect of trimethyltin isooctylthioglycolate was 1 ppm when fed in the diet of rats for a three-month period.

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Rohm and Haas Company does not consider the exact identity of this chemical to be Confidential Business Information (CBI)

If you have any questions concerning this submittal, my telephone number is (215) 592-2986.

Sincerely,


George J. Powell
TSCA Manager
EHS Corporate Center