

8EHQ-0195-13300

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

January 6, 1995

A



8EHQ-95-13300
INIT 01/13/95

Document Processing Center (TS-790)
Section 8(e) Coordinator
Office of Toxic Substances
US. Environmental Protection Agency
401 M Street, SW
Washington, DC 20460

95 JAN 13 AM 7:50

RECEIVED
OPPT. MISC

Contains No CBI

Dear Sir/Madam:

RE: TSCA 8(e) Submission for an Acute Aquatic Toxicity Study of Technical Grade 1,3-Benzene dicarboxylic acid, bis(4-ethenyloxy)butylester

AlliedSignal is submitting summary information contained in a Final Report for Acute Aquatic Toxicity to *Daphnia Magna*. The Daphnid study determined that the 48-hour LC50 was 0.28 mg/l. The No Observed Effect Level (NOEL) was determined to be less than 0.027 mg/l.

AlliedSignal has determined this information is reportable under TSCA 8(e) as substantial risk information and is submitting the attached summary. AlliedSignal currently produces this material for commercial use in Ultraviolet Light (UV) curable coatings and other applications. The material presents a limited hazard since the chemical is fully consumed during use.

We do not claim confidentiality for this report.



88950000097

Very truly yours,

R. Greg Watson
Supervisor, Product Safety

Attachment: 12/21/94 Transmittal Memo for Final Report

mm
1/25/95

5001 8 1 NW



DATE: December 21, 1994

TO: Dan Levine

FROM: Gary Roy

SUBJECT: TRAC NOTIFICATION OF SIGNIFICANT TOXICOLOGICAL FINDINGS-ACUTE AQUATIC TOXICITY CAUSED BY VECTOMER E2200

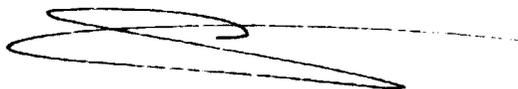
Vectomer E2200 has been found to cause acute aquatic toxicity to *Daphnia magna*, with a 48-hour LC50 of 0.28 mg/l. These results meet the criteria established by the Department for reporting to TRAC. In addition, the 96-hour LC50 in Rainbow trout was determined to be 1.1 mg/l, which is just above the criterion for reporting to TRAC.

The Daphnid study was conducted without renewal of test solutions for 48 hours at mean measured concentrations ranging from 0.027 to 8.0 mg/l. The No Observed Effect Level was less than the lowest concentration tested (<.027 mg/l). Analytical recoveries at 48 hours ranged from 0-68% of nominal, reflecting instability of Vectomer E2200 in water.

The trout study was conducted with daily renewal of test solutions at mean measured concentrations ranging from 0.24 to 9.4 mg/l. The No Observed Effect Level was 0.65 mg/l, with all reactions to exposure, including 100% mortality, occurring at the higher levels.

For additional information, an Algal Growth Inhibition study was conducted, which showed an 72-hour EC50 of 2.8 mg/l, with 0% recovery of test material at 72 hours due to instability in water and adsorption to cells. The Algal No Observed Effect Level is 0.21 mg/l. A Respiratory Inhibition study (EC50 @3 hours >10 mg/l) and a Biodegradability study (13% biodegradation at 28 days) showed that Vectomer E2200 was not inhibitory and is not considered readily biodegradable.

The summary of final reports is attached for your reference.



GAR - 4994

Attach.

/rl

cc: G.M. Rusch
C. Srivastava
File: TOX-50B