



AGCHEM

Three Parkway, Philadelphia, Pennsylvania 19102 • (215) 587-7219
CABLE-PENWALT • TELEX-845-234 OR 831-415

CHEMICALS • EQUIPMENT • HEALTH PRODUCTS

17 July 1985

Mr. Frank Dawson
Maryland Department of
Natural Resources
Tawes State Office Building, C-3
Annapolis, MD 21401

Dear Frank:

As requested in the meeting held on 8 July 1985, enclosed please find technical information on endothall. While not all of the articles provided are specific to the estuarine environment, they do provide background information on the fate of endothall in aquatic ecosystems. I have also included articles which address in greater detail some of the questions asked during the meeting.

The article concerning Striped Bass, which is summarized in the "Review of the Effects of Endothall Products on Aquatic Ecosystems" has been lifted from our files. The reference is: Wellborne, Thomas L., Toxicity of Some Compounds to Striped Bass Fingerlings, Prog. Fish Cult. (January, 1971): 32 - 36.

Proprietary tests on marine/estuarine species have given the following results:

<u>SPECIES</u>		<u>TECHNICAL ENDOTHALL</u>
Mussel embryolarvae	48 hr. LC ₅₀	49.5 ppm
Grass shrimp	96 hr. LC ₅₀	95.1 ppm
Fiddler crab	96 hr. LC ₅₀	132.8 ppm
Mummichog	96 hr. LC ₅₀	213.9 ppm

These studies show no increase in toxicity over fresh water species. Further, studies on fresh water fish and marine clams utilizing radiolabeled endothall showed that no bioaccumulation occurs in either water system (fresh or salt).

Per our conversation, I understand that you will disseminate this information to those attending the technical meeting. If I can be of further assistance, please do not hesitate to call on me.

Sincerely yours,

PENWALT CORPORATION
AGCHEM DIVISION

Gary D. Curl
Product Manager

GDC/sc
Enclosure