UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

000107

DATE: August 22, 1979

SUBJECT: Review of Acute Neurotoxicity, Study of Azodrin-5, Group Research
Report TL GR .0066.78   Caswell #377

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Registrant: SHELL-Toxicology Laboratory

This study entitled: —

"Toxicity of organophosphate insecticide AZORDIN: Investigation
of the neurotoxic potential of AZODRIN-5 to adult domestic hens"

does not supply the needed information to definitively assess the
neurotoxic potential of AZODRIN-5 acutely to mature hens for the
following reasons: —

1. There is no body weight or food consumption data
submitted in the study.

2. The test material AZODRIN-5 is referred to as a com-
mercial formulation. The test material needs to be
identified fully to include a list of inerts and
impurities, including the trimethyl phosphate impurity.

3. The statement was made that "no persistent ataxia" was
evident in the hens surviving two oral doses of
AZODRIN-5.

   If the ataxia was not persistent but transitory, what
   was the duration of the ataxia and in how many birds was
   it observed? Was it only ataxia without other signs?

4. Only five hens of fourteen treated survived through the
second dosing period for toxicity observations and
histopathology. This small number of animals for
histopathology examination is too small a number to
justify the conclusion that "the compound can be regarded
as having no neurotoxic potential in the adult fowl".

5. Are we to understand that atropine sulphate and
pralidoxime chloride does not protect against this
specific organophosphate pesticide?

6. The statement that there was no persistent ataxia is inconsistent with the statement that there is "no neurotoxic potential" in the adult fowl.

7. More data <u>is required</u> from the control animals.

   This study provides only supplementary information.