UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 11/10/76

SUBJECT: PP #6F1864/6H5149; Tolerances requested for combined residues of Nemacur ethyl 3-methyl-4-(methylthio) phenyl (1-methylethyl) phosphoramidate and its cholinesterase inhibiting metabolites in or on pineapple fruit, foliage, bran and cannery waste. DATE:

FROM: Toxicology Branch/Registration Division

6F1864

TO: Mr. Eugene Wilson/Product Manager 21 &
Chemistry Branch

Pesticide Petition No.: 6F1864
Food Additive Petition No.: 6H5149

Petitioner: Chemagro Agricultural Division
Mobay Chemical Corporation

Tolerances Requested: (from preharvest (8 mo.) application)

0.04 ppm in or on pineapple fruit, fresh
1.0 ppm in or on pineapple foliage, fresh
1.0 ppm in or on pineapple bran and cannery waste

Recommendations: Do not establish tolerances.

Prior to issuance of permanent tolerances the following items should be addressed:

(1) Based on the CB memo of March 2, 1976 we concur that the nature and especially the fate of the unidentified ChE inhibiting metabolite be investigated. If the metabolite in fact is only transient it would not be of toxicological concern. (CB memo paragraph 3b)

(2) TOX defers to Chem Branch the following questions:

(A) what amount of residues of the phenolic hydrolysis products of Nemacur are likely to be found in or on pineapple?

(B) will there be a transfer of residues to meat and milk from ingestion of pineapple foliage and bran?

(3) TOX Branch is aware that there may be a significant residue consisting of the phenolic hydrolysis products of Nemacur on certain crops. The petitioner should address the toxicological significance of such a residue. (CB memo paragraph 3a).

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(4) The Mutagenic Evaluation (Dominant Lethal Test), alone, is not adequate. At this time, the adequacy of certain mutagenicity tests are being assessed and will be published in the future.

Toxicity Data Review:

1. No new data was submitted.

2. Refer to TOX review of 11/10/76, PP #6F177D by W. Greear.

William Greear

William Greear
Toxicology Branch
Registration Division

E for OSP 11/17/76