P/HSD/ISB
2089

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

FEB 18 1988

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: PP #6F3431. Harmony on Wheat and Barley, re: Deference to TOX on the Tolerance Expression

FROM: Cynthia Deyrup, Ph.D., Chemist
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Tolerance Petition Section 2
Hazard Evaluation Division (TS-769)

Cynthia Deyrup

THRU: Charles L. Trichilo, Ph.D., Chief
Residue Chemistry Branch
Hazard Evaluation Division (TS-769)

TO: Toxicology Branch (Marcia Van Gemert)
Hazard Evaluation Division (TS-769)

and

Robert Taylor, Product Manager # 25
Registration Division (TS-767)

TOX (M. Van Gemert) has suggested that deferences to them from RCB be addressed in a memorandum specifically delineating RCB's questions.

In the wheat metabolism studies, the following metabolites have been identified. These residues were identified in straw, but RCB is translating the data from straw to grain; radioactive residues in grain were too low to identify.

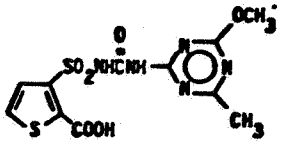
Residue	PPM in 2X treated straw	PPM Extrapolated to 1X wheat grain
DPX-M6316 acid	0.033	0.00075
2-Ester-3-sulfonamide	0.006	0.0001
3-Acid-2-sulfonamide	0.059	0.0013
0-Demethyl-DPX-M6316	0.004	0.00007
Triazine urea	0.012	0.0002
Triazine amine	0.005	0.00009
0-Demethyl Triazine Amine	0.007	0.00012

The contributions that these metabolites make to the total radioactive residue (TRR) are given below.

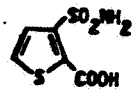
Residue	% TRR
DPX-M6316 acid	4.6-8.9
2-Ester-3-sulfonamide	1.3
3-Acid-2-sulfonamide	12.3
0-Demethyl-DPX-M6316	0.9
Triazine urea	0.01
Triazine amine	0.005
0-Demethyl Triazine Amine	0.007

The proposed tolerance expression is in terms of the parent only. RCB needs to know whether any of the above metabolites should also be included in the tolerance expression. The structures are given in Figure 1.

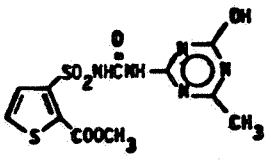
Figure 1



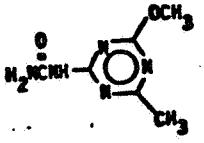
DPX-M6316 Acid



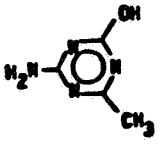
2-Acid-3-Sulfonamide



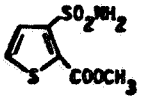
0-Demethyl DPX-M6316



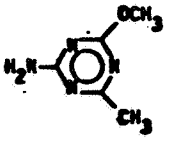
Triazine Urea



0-Demethyl Triazine Amine



2-Ester-3-Sulfonamide



Triazine Amine

cc: PM #25, R.F., Circu, Reviewer-Deyrup, PP7F3431, PMSD/ISB
RDI: JHOnley:2/11/88:RDSchmitt:2/11/88
TS-769:CD:cd:2/12/88:RM810:CM-2:X7484

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