FMSD/ESB

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

JUL 12 1988

Memorandum

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

Subject: Atrazine Special Review. Data Call-In for Residue Field Trials in Which Hydroxylated Atrazine Metabolites are Measured.
No Accession Number / No MRID Number
No RCB Number

From: Michael S. Metzger, Chemist
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Hazard Evaluation Division (TS-769C)

Thru: Edward Zager, Section Head, SRS 2
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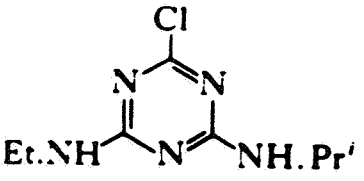
Hazard Evaluation Division

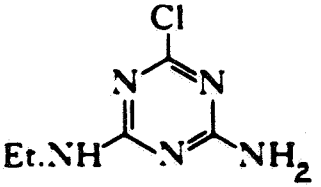
To: Mr. Jack E. Housenger, Head
Risk / Benefit Section
Special Review Branch
Registration Division (TS-767C)

RCB is currently reviewing the available Product and Residue Chemistry Data for atrazine in order to determine dietary exposure to residues of atrazine and its metabolites. The Dietary Exposure Assessment is part of the Atrazine Special Review. We have determined that residue data for hydroxylated atrazine metabolites, in addition to residue data already available, are required.

Available metabolism data indicate that any of the metabolites shown below could be a major atrazine metabolite on a particular crop.

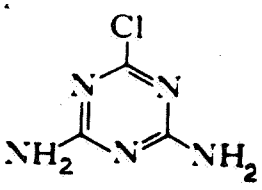


Atrazine

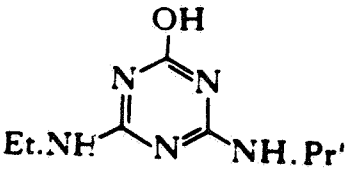


G-28279

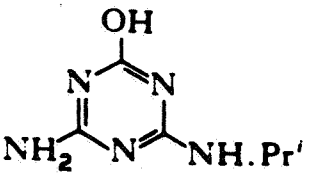
G-30033



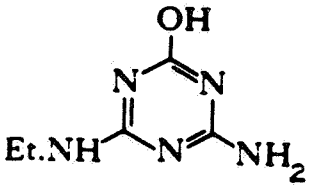
G-28273



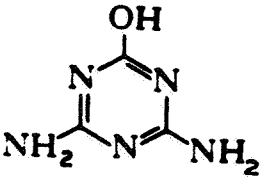
G-34048



GS-17794



GS-17792



GS-17791

In a discussion with toxicologists on the Atrazine Special Review Team (meeting, 7/5/88), it was concluded that the hydroxy-metabolites would be of concern if they were found at significant levels. The relative percentages of the various metabolites of atrazine cannot be precisely determined based on available plant metabolism studies. However, sufficient information is available to indicate that the hydroxy-metabolites can make up a significant portion or the majority of total atrazine residues in some plants (corn, wheat).

Therefore, residue field trial data should be Called-In for residues of the hydroxy-metabolites of atrazine (G-34048, GS-17794, GS-17792 and GS-17791) for all commodities on which atrazine is registered (listed above). A sufficient number of field trials should be performed for each commodity so that a reliable indication of residues of hydroxy-metabolites likely to result in different growing areas and conditions can be determined. Residue field trials should reflect applications of the registered atrazine formulations at the maximum application rates and shortest PHI's. The registrant should be referred to Subdivision O (Residue Chemistry) of the Pesticide Assessment Guidelines for additional details regarding residue field trials.

We note that a Second Round Review (SRR) for atrazine is currently being prepared by RCB. The DCI described in this review is for the purposes of the dietary exposure being prepared for the Atrazine Special Review only. Additional data may be required as a result of the Second Round Review.

cc: M. Metzger (RCB), Atrazine S.F., TOX, SIS, PM# 25, E. Eldredge (ISB/PMSD), Circu (7), R.F.
RDI:E.Zager:EZ:7/11/88:RDS:7/11/88
TS-769C:RCB:M.Metzger:MM:Rm803a:CM#2:7/11/88