UNI[T] STATES ENVIRONMENTAL PROTE[CT]ION AGENCY

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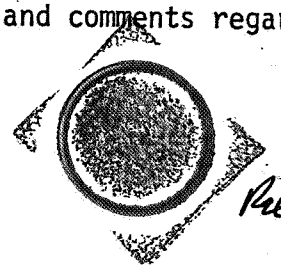
Atrazine / Review # 25/3.28.79/1 page

DATE: March 28, 1979

SUBJECT: Memo concerning metabolite residues of Atrazine and comments regarding such by Chemistry Residue Branch.

FROM: Charles Frick C. Frick 4/5/79
Toxicology Branch (TS-769)

TO: Terri Galloway
Emergency Response Section



Action: Proposed Section 18 Exemption for the use of atrazine on proso millet in Nebraska - see review by C. Frick 2/12/79.

The Chemistry Residue Branch review by E. Zager 2/15/79 states as follows:

Conclusions and Recommendations

1. Residue data for proso millet are limited. However, for the purposes of this Section 18 exemption, we are translating data previously submitted for wheat (PP#7F0620) to millet. We conclude that residues of atrazine per se are not likely to exceed 0.25 ppm on Proso millet grain and 5 ppm on the straw and green forage and fodder as a result of this use. We can draw no conclusions regarding the levels of the metabolites of atrazine such as: 2-amino-4-chloro-6-ethylamino-s-triazine, 2-amino-4-chloro-6-isopropylamino-s-triazine and 2-chloro-4,5-diamino-s-triazine which might be present on these raw agricultural commodities.

2. The existing meat and milk tolerances will cover any secondary residues of atrazine per se generated by this use. No conclusions can be made regarding the levels of the atrazine metabolites which might be present in meat, milk, poultry and eggs as a result of this use. However, the potential for metabolite residues occurring in meat and milk from the proposed use is small in comparison with registered uses.

TOX considerations permitting, we have no objections to the proposed Section 18 exemption provided some administrative agreement is made with FDA regarding the legal status of treated Proso millet grain and straw in commerce.

Comments:

Regarding the metabolites mentioned by RCB; if these metabolites were also present in the animal experiments used in establishing the safety of Atrazine per se; Toxicology Branch can envision no overt hazard associated with the requested Section 18. If however, these metabolites exist in unknown quantities and independent of any animal data; Toxicology Branch is not able to make a hazard evaluation.

(RCB comments and Request for TOX Branch comments enclosed).

EPA FORM 1320-6 (REV. 3-76) M.W. Butler 4/13/79