



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

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

MEMORANDUM

DATE: 17-JUN-1998

SUBJECT: PP# 6F04664. **Isoxaflutole in/on Field Corn and Animal RACs.** Amendment of 4/28/98. Revised Section F. MRID# none. Barcode D245872. Chemical 123000. Case 287353. Submission S541869.

FROM: George F. Kramer, Ph.D., Chemist  
RAB1/HED (7509C) *[Signature]*

THROUGH: Melba Morrow, Branch Senior Scientist *[Signature]*  
RAB1/HED (7509C)

TO: Barbara Madden  
RCAB/HED (7509C)

Rhône-Poulenc Ag Company has proposed permanent tolerances for the combined residues of the herbicide isoxaflutole and its metabolites 1-(2-methylsulfonyl-4-trifluoromethylphenyl)-2-cyano-3-cyclopropyl propane-1,3-dione (RPA 202248) and 2-methylsulfonyl-4-trifluoromethyl benzoic acid (RPA 203328), calculated as the parent compound, in/on:

Field Corn, Grain -- 0.20 ppm | Field Corn, Fodder -- 0.50 ppm  
Field Corn, Forage -- 1.0 ppm

Tolerances are also proposed for the combined residues of the herbicide isoxaflutole and its metabolite RPA 202248, calculated as the parent compound, in/on:

Milk -- 0.02 ppm | Liver\* -- 0.50 ppm  
Poultry, Liver - 0.30 ppm | Eggs -- 0.01 ppm  
Fat\* -- 0.20 ppm | Meat\* -- 0.20 ppm  
Meat Byproducts (except liver)\* -- 0.10 ppm

\*of cattle, goat, hogs, horses and sheep

The current amendment addresses deficiencies pertaining to Section F identified in RAB1's previous review (Memo, G. Kramer 11/26/97; D238240).

### Executive Summary of Chemistry Deficiencies

- Limited field accumulation studies in rotational crops.
- Revised version of the analytical enforcement method for plants.
- Revised version of the analytical enforcement method for animals.
- Revised Section F.

### CONCLUSIONS/RECOMMENDATIONS

HED continues to recommend against the proposed permanent tolerances for isoxaflutole and its metabolites in/on field corn and animal RACs for reasons detailed below and in Conclusions 1, 2, & 4 of Memo, G. Kramer 11/26/97 (D238240). HED has, however, recommended in favor of time-limited tolerances while these deficiencies are resolved (Memo, B. Madden 2/6/98; D223677).

### DETAILED CONSIDERATIONS

#### Deficiencies - Conclusion 2 & 5 (from Memo, G. Kramer 11/26/97)

2. Based on the decision of the HED Metabolism Assessment Review Committee, tolerances are now required for meat and fat of cattle, goat, hogs, and sheep; and for meat, eggs and fat of poultry (Memo, G. Kramer 9/18/97; D238727). The required tolerances for these commodities, 0.20 ppm for meat and fat and 0.01 ppm for eggs, are based on the LOQ of the proposed analytical enforcement method. A revised Section F is required.

5. The proposed tolerance for liver of cattle, goat, hogs, and sheep (0.05 ppm) is incorrect. The appropriate value is 0.50 ppm. A revised Section F is required. HED also notes that the tolerances for corn commodities should be expressed as: "Corn, field, grain"; "Corn, field, forage" and "Corn, field, stover."

**Petitioner's Response:** Submission of a revised Section F:

Permanent tolerances are proposed for the combined residues of isoxaflutole and its metabolites 1-(2-methylsulfonyl-4-trifluoromethylphenyl)-2-cyano-3-cyclopropyl propane-1,3-dione and 2-methylsulfonyl-4-trifluoromethyl benzoic acid, calculated as the parent compound, in/on:

Field Corn, Grain	--	0.20 ppm		Field Corn, Fodder	--	0.50 ppm
Field Corn, Forage	--	1.0 ppm				

Permanent tolerances are proposed for the combined residues of isoxaflutole and its metabolite 1-(2-methylsulfonyl-4-trifluoromethyl phenyl)-2-cyano-3-cyclopropyl propane-1,3-dione, calculated as the parent compound, in/on:

Milk	--	0.02 ppm		Liver*	--	0.50 ppm
Poultry, Liver	-	0.30 ppm		Eggs	--	0.01 ppm
Fat*	--	0.20 ppm		Meat*	--	0.20 ppm
Meat Byproducts (except liver)*					--	0.10 ppm

\*of cattle, goat, hogs, horses and sheep

**HED's Conclusion:** Section F has **not been** revised as requested. Based on the decision of the HED Metabolism Assessment Review Committee, tolerances are required for meat and fat of cattle, goat, hogs, and sheep; and for meat, eggs and fat of poultry (Memo, G. Kramer 9/18/97; D238727). These tolerances are required to account for the presence of metabolites of toxicological concern found in the animal feeding studies which are not included in the tolerance expression (RPA 207048 and RPA 205834). HED also reiterates that the tolerances for corn commodities should be expressed as: "Corn, field, grain"; "Corn, field, forage" and "Corn, field, stover."

cc: PP#6F04664, G. Kramer (HED)  
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