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

APR 29 1996

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

MEMORANDUM:

SUBJECT: PP#3G4250: New Chemical EUP: Flumioxazin on Soybeans.  
Amendments Proposing Revised Sections B, F, and G. Chem. ID  
129034 MRID No.439014-00 DP Barcode D222275. CBTS No. 16859

FROM: Joel Garbus, PhD., Chemist *Joel Garbus*  
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THRU: E. Zager, Acting Chief  
Chemistry Branch Tolerance Support *E. Zager*

TO: J. Miller / D. Kenny, PM-23  
Registration Division (7505C)

and

Debbie McCall, Acting Section Head  
Registration Section, RCAB (7509C)

Executive Summary

CBTS has no objections to the proposed revisions in Sections B, F, and G of the EUP for flumioxazin on soybeans.

Valent U.S.A. Corporation, Walnut Creek, CA, in conjunction with its request for an Experimental Use Permit, has petitioned for temporary tolerances for the herbicide flumioxazin [7-fluoro-6-[(3,4,5,6-tetrahydro) phthalimido]]-4-(2-propynyl)-1,4-benzoxazin-3(2H)-one] in or on soybean seed and soybean forage at 0.01 ppm. In an amendment to PP3G4250, the petitioner proposes revisions of Section B to effect changes in application rates, tank mixes, and weeds controlled; of Section F to withdraw the tolerance of 0.01 ppm proposed for soybean forage; and in Section G to reduce the number of acres treated and the total amount of active ingredient to be utilized.

Flumioxazin is intended to be used as a selective herbicide for the pre- or post-emergence control of susceptible broadleaf weeds and grasses in soybeans at low rates. The end use product contains 51% active material formulated as a wettable powder or granule in water-soluble packets. Each packet contains 6 ounces of formulated material.



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CBTS previously has recommended for 0.01 ppm tolerances for residues of flumioxazin in soybean seed, forage, and hay. (J. Garbus, memo, 9/24/94).

#### Conclusion and Recommendation

CBTS has no objections to the proposed revisions in Sections B, F, and G of the EUP for flumioxazin on soybeans. A DRES run can be initiated using the 0.01 ppm tolerance for soybeans if not already done.

#### Detailed Considerations

##### Section B: Revisions of Direction for Use

The maximum seasonal application has been reduced from 3 ounces per acre to 2.5 ounces; Harness (acetochlor), Surpass (atrazine), Frontier (dimethen- amid), Lexone (metribuzin), Sencor (metribuzin), Classic (chlorimuron ethyl), Canopy (metribuzin plus chlorimuron ethyl), and Sceptre (imazaquin) have been added to the list of acceptable tank-mix partners.

A label restriction on the feeding or grazing of treated soybean forage and hay has been added to the label.

##### Section F: Revisions of Proposed Tolerances

The requested tolerance of 0.01 ppm for soybean forage has been withdrawn. The tolerance of 0.01 ppm for soybean seed is the still remaining requested tolerance.

This revision is appropriate and acceptable as the September 1995 revision of Table II allows for label restrictions on the feeding and grazing of soybean forage and hay. A restriction to this effect has been added to the proposed label for the EUP.

##### Section G: Revisions of Experimental Use Program

Valent had proposed to conduct 57 trials at 17 sites in all major soybean growing states over a two year period with 1,260 acres to be treated at 2.5 ounces per acre. This would necessitate the use of 198.1 lbs of active ingredient over the two years of the program.

The revised program is for 40 trials at 17 sites in all major soybean growing states over a two year period with 480 acres to be treated at 2.5 ounces per acre. This now would necessitate the use of 91.77 lbs of active ingredient over the two years of the program.

cc: PP3G4250, R.F., Circ., Reviewer  
RDI:RAL:4/25/96:EZ:4/25/96  
H7509c:JG:jg:CM2-805a:(703) 305-5405:4/29/96