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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

**MEMORANDUM**

**DATE:** 28 September 2007

**SUBJECT:** Flumioxazin. Request for Label Amendment Specifying a Plant-Back Interval (PBI) of 30 Days Following Use of the Herbicide.

**PC Code:** 129034  
**DP Numbers:** 339518, 339519  
**Decision Numbers:** 378602, 378603  
**Regulatory Citation:** 40CFR §180.568  
**Chemical Class:** N-phenylphthalimide Herbicide  
**Trade Names:** Valor®, Chateau® WDG  
**MRID Numbers:** (None submitted)

**FROM:** William T. Drew, Chemist *WTDrew*  
Registration Action Branch 2  
Health Effects Division (7509P)

**THROUGH:** Christina Swartz, Branch Chief  
Registration Action Branch 2  
Health Effects Division (7509P)

**TO:** James Stone/Joanne Miller, RM Team 23  
Herbicide Branch  
Registration Division (7505P)

## Background

Flumioxazin, an herbicide with CAS Number 103361-09-7 and CAS Name 2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]-4,5,6,7-tetrahydro-1H-isoindole-1,3(2H)-dione, is a member of the N-phenylphthalimide class of compounds.

Valent USA Corporation has submitted a proposed label amendment specifying a reduction of the PBI (to 30 days) following use of flumioxazin as water-dispersible granule (WDG) formulations containing 51% active ingredient (ai). The formulations for which this label amendment is proposed are Valor Herbicide (EPA Registration #59639-99) and Chateau WDG Herbicide (EPA Registration #59639-119). No new data have been submitted in support of this proposed label amendment.

## Considerations

In support of its proposed label amendment for reduction of the PBI to 30 days following flumioxazin use, Valent (in James Pensyl's letter of 4/25/2007 to Joanne Miller, of RD's Herbicide Branch) cited confined rotational crop studies conducted with wheat, lettuce, and carrots, as reviewed in the residue chemistry summary document for tolerance petition #3G4250 (D194587, D194594; Joel Garbus; 9/28/1994).

OPPTS Residue Chemistry Test Guideline 860.1850 (*Confined Accumulation in Rotational Crops*) states that, following 1X application to the required three rotated crops (a small grain, a leafy vegetable, and a root crop), "If the TRR is <0.01 ppm in all three crops at the 1-month interval, then no plantback restrictions will be needed on the label." Confined rotational crop studies were conducted with wheat, lettuce, and carrots; flumioxazin was subsequently observed at 0.013 ppm in wheat straw at the 30-day PBI. The TRR was <0.01 ppm in the other commodities tested (wheat forage, grain, and chaff; lettuce; and carrot foliage and root) at that interval. As the level in wheat straw (0.013 ppm) is only slightly greater than the OPPTS Guideline threshold of 0.01 ppm, and given that wheat straw is not a significant livestock feed item, HED considers Valent's proposed label amendment to be in accordance with Guideline 860.1850's criteria for obviating plantback restrictions.

## Regulatory Recommendation

HED recommends that Valent's proposed label amendment for the two flumioxazin WDG formulations (Valor Herbicide, EPA Registration #59639-99, and Chateau WDG Herbicide, EPA Registration #59639-119), which would reduce the PBI to 30 days following flumioxazin use, be approved.

## References

PP# 3G4250: *New Chemical EUP: V-53482, Flumioxazin on Soybeans. Evaluation of Analytical Methods and of Residue Data*; D194587, D194594; Joel Garbus; 9/28/1994.