



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

OCT 19 1994

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: ID #000279-GRUO. PP#4F4407 (CBTS #14493; Barcode #D207677). Sulfentrazone on Soybeans.
SCREEN of New Chemical/First Permanent Tolerance Petition (MRID #'s 433454-01, 433454-02, 433454-03, 433454-14, 433454-15, 433454-16, 433454-17, 433454-18, 433454-19, 433454-20, 433454-21, 433454-22, 433454-23, 433454-28, 433454-29, 433454-30, 433454-31, 433454-32).

FROM: Nancy Dodd, Chemist *Nancy Dodd*
Tolerance Petition Section II
Chemistry Branch I - Tolerance Support
Health Effects Division (7509C)

THROUGH: Richard Loranger, Ph.D., Acting Branch Chief *R. Loranger*
Chemistry Branch I - Tolerance Support
Health Effects Division (7509C)

TO: JoAnne Miller/Jesse Mayes, PM Team #23
Fungicide-Herbicide Branch
Registration Division (7505C)

FMC Corporation has proposed permanent tolerances for the herbicide sulfentrazone (N-[2,4-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]phenyl]methanesulfonamide) and its metabolites 3-hydroxymethyl-sulfentrazone (N-[2,4-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-hydroxymethyl-5-oxo-1H-1,2,4-triazol-1-yl]phenyl]methanesulfonamide) and 3-desmethyl sulfentrazone (N-[2,4-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-5-oxo-1H-1,2,4-triazol-1-yl]phenyl]methanesulfonamide) in/on soybeans and the rotational crops wheat and corn as follows:

0.05 ppm in/on soybean seed and aspirated grain fractions
0.10 ppm in/on wheat forage, wheat straw, and wheat grain
0.10 ppm in/on corn fodder, corn silage, and corn grain

CBTS has recommended against a temporary tolerance for sulfentrazone (EPA Reg. No. 279-GRUO) on soybeans (PP#3G4272, G.F. Kramer, 9/1/94). PP#3G4272 was the first food use petition for sulfentrazone.

DISCUSSION

The appropriate Product Chemistry and Residue Chemistry studies for sulfentrazone and its 3-hydroxy metabolite on soybeans have been submitted or referenced. The adequacy of the submitted/referenced studies will be evaluated at the time of the review.

CONCLUSIONS/RECOMMENDATIONS

As requested, CBTS has conducted a screen of PP#4F4407. The petition passes the screen.

Analytical reference standards for sulfentrazone (N-[2,4-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]phenyl]-methanesulfonamide) and its metabolite 3-hydroxymethyl-sulfentrazone (N-[2,4-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-hydroxymethyl-5-oxo-1H-1,2,4-triazol-1-yl]phenyl]methanesulfonamide) should be sent to the Pesticides and Industrial Chemicals Repository, RTP, NC.

Note to PM: MRID #433454-18 (cold storage stability on soil and groundwater) and MRID #433454-20 (cold storage stability on soil) should be sent to EFED for review.

cc: RF, Circu., Screen File, PP#4F4407, N. Dodd (CBTS), E. Haeberer (CBTS), A. Kocialski (CCB), PM #23, EFED (Rose Mary Kearns), ACB/BEAD (D. Marlow), ACS/ACB/BEAD (H. Hundley)

RDl:E. Haeberer:10/18/94:M. Flood:10/18/94
7509C:CM#2:Rm804F:305-5681:N. Dodd:nd:10/19/94

