



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

JAN 3 1995

MEMORANDUM

OFFICE OF  
PESTICIDES AND TOXIC SUBSTANCES

*Subj' File*  
*1/3/95*

SUBJECT: Sethoxydim. Case No. 2600. Additional Data on Sugar Beet Metabolism. MRID No. 43467001. CBRS No. 14814. DP Barcode: D210046.

FROM: Leung Cheng, Chemist *Lee Cheng*  
Special Review Section I  
Chemistry Branch II - Reregistration Support  
Health Effects Division (7509C)

THROUGH: Andrew R. Rathman, Section Head *ARR*  
Chemistry Branch II - Reregistration Support  
Health Effects Division (7509C)

TO: Bonnie Adler, CRM 52  
Accelerated Reregistration Branch  
Special Review/Reregistration Division (7508W)

BASF Corporation has submitted a study entitled "LC-MS Re-analysis of MSO<sub>2</sub> Isolated from Sugar Beet (Supplementary Study to MRID 43144501)" in response to CBRS review No. 13401 (L. Cheng, 9/16/94). The review requested the registrant to explain the extraneous peaks and different ion ratios observed between the MSO<sub>2</sub> standard and the MSO<sub>2</sub> fractions isolated from sugar beet top and root. It also concluded that the sugar beet metabolism study was upgradable pending the requested information.

The registrant replied that the extraneous peaks seen in the mass spectra were due to impurities in the sugar beet samples. The performing laboratory re-analyzed reserved samples of sugar beet top and root. Mass spectra of the samples showed the same peaks as the MSO<sub>2</sub> standard with similar peak intensities. It was pointed out that even the relative peak intensities of the standard injected at two different times varied.

CONCLUSIONS AND RECOMMENDATION

We conclude that, with the 2-dimensional TLC analyses submitted in the original report and the additional mass spec information, the identity of MSO<sub>2</sub> as one of the metabolites found

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in sugar beet top and root has been confirmed. The metabolism study of sethoxydim on sugar beet is acceptable.

cc:Circ, SF, RF, List B File, Cheng  
RDI:ARRathman:12/30/94:MSMetzger:12/30/94  
7509C:CBRS:LCheng:CM#2:RM810D:12/29/94:04:SETHOXYDIM\BEETMETA