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

OCT 22 1993

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: Reregistration of Pendimethalin. **Storage Intervals and Conditions of Crop Field Trial Residue Samples.** List A Case No. 0187. Chemical No. 108501. CBRS No. 9914; DP BARCODE D178454; MRIDs 42266301-07.

FROM: Paula A. Deschamp, Section Head
Reregistration Section I
Chemistry Branch II: Reregistration Support
Health Effects Division (7509C)

THRU: Edward Zager, Chief
Chemistry Branch II: Reregistration Support
Health Effects Division (7509C)

TO: Lois Rossi, Deputy Division Director
Reregistration Branch
Special Review and Reregistration Division (7508W)

American Cyanamid submitted sample storage intervals (1992; MRID 42266301) to supplement residue data used for tolerance reassessment in the 1984 Residue Chemistry Chapter. This information was reviewed by Acurex Environmental under supervision of CBRS, HED. The data assessment has undergone secondary review in CBRS and has been revised to reflect Branch policies.

Additional data must be provided before the storage stability of pendimethalin can be considered adequate. Residues of pendimethalin and 3,5-DNBA in samples of soybeans decline by about 50% after 12 months of storage and no stability data are available for non-oily grains. Thus, additional storage stability data to validate that residues of pendimethalin and 3,5-DNBA are stable in samples of non-oily grains stored frozen for up to 533 days and the oil seed crops cottonseed, sunflower seed, peanuts, soybeans stored frozen for up to 457, 951, 611, and 606 days, respectively, are outstanding.

Prior to issuance of Guidance for Generating Storage Stability Data (EPA 737-R-93-001, February 1993), additional data on the stability of 3,5-DNBA were required for potato tubers (E. Zager; CBRS Nos. 8118 and 8515, D165134 and D167858 dated 5/15/92). The registrant should be informed that these data are no longer needed.

The registrant should also be reminded that additional residue data are still required from processing studies on soybeans, rice grain, sorghum, cottonseed, and peanuts. These residue data must be supported by acceptable storage stability data.

Also included in this data package were data for 171-4(c) (1984-88; MRIDs 42266303 through 07). These data were contained in previous submissions (MRIDs 41982701 and 41845801) and reviewed by CBRS (E. Zager, addendum to CBRS No. 8118 and CBRS No. 8515, dated 5/15/92); they are not reviewed again here.

Also included in this data package was a response (1990; MRID 42266302) to methodology deficiencies in conjunction with a proposed amended use on cotton; this data submission should be redirected to RD.

Attachment 1: Pendimethalin CBRS No. 9914; DP BARCODE D178454. Registrant's Response to Residue Chemistry Data Requirements.

cc: PADeschamp (CBRS), Circulate, Pendimethalin RegStd File, SF, Acurex Environmental
cc: RF (Without attachment), Microfiche, F:\USER\CB\Pendimethalin.3

7509C:CBRS:PDeschamp:CM#2:Rm804A:703-305-6227:10/15/93
RDI: MMetzger:10/12/93