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

AUG 30 1993

MEMORANDUM

OFFICE OF
PESTICIDES AND TOXIC
SUBSTANCES

SUBJECT: Chlorpropham. Case No. 0271. Elf Atochem (Registrant No. 2792) Submission on Product Chemistry. MRID No. 428551-01 & -02. CBRS No. 12330. DP Barcode: D193854.

FROM: Leung Cheng, Chemist *Lee Cheng*
Special Review Section I
Chemistry Branch II - Reregistration Support
Health Effects Division (H7509C)

THROUGH: Edward Zager, Chief *EZ*
Chemistry Branch II - Reregistration Support
Health Effects Division (H7509C)

TO: Venus Eagle, CRM # 71
Reregistration Branch
Special Review/Reregistration Division (H7508W)

Elf Atochem has submitted product chemistry for chlorpropham [isopropyl N-(3-chlorophenyl) carbamate] to satisfy data requirements specified in 40 CFR, Part 158 (Guideline No. 63-11 and 63-13, Subdivision D, Pesticide Assessment Guidelines) for reregistration.

§63-11 Partition coefficient $K_{o/w}$

The study was conducted following the procedure outlined in Federal Register, 45, 227, 77350 (1980). The amount of chlorpropham present in the two phases (water and octanol) was individually determined by liquid chromatography at two concentrations ($\approx 10^{-2}$ M and 10^{-3} M in octanol saturated with water) and at 25 C using a UV detector (254 nm). For each concentration, 3 tests were conducted. The mean $K_{o/w}$ was found to be $2.97 \times E3$ (or a log P value of 3.47). Guideline 63-11 is satisfied.

§63-13 Stability

The study was conducted according to OECD No. 113, a method referenced in the Pesticides Assessment Guidelines. Chlorpropham was found to be stable at 55 C for 14 days, stable towards Al, Fe,



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and Sn at 25-150 C, and stable to sunlight. Guideline 63-13 is satisfied.

CONCLUSIONS AND RECOMMENDATION

Product chemistry data for Guideline 63-11 and 63-13 have been satisfied. We recommend these data be entered into Elf Atochem's chlorpropham product chemistry data base.

cc:Circ, SF, RF, Reg Std File, Cheng
RDI:RPerfetti:8/27/93:MMetzger:8/30/93:EZager:8/30/93
H7509C:CBRS:LCheng:CM#2:RM804/810D:8/27/93:03:CHLORPRO\ELF