US ERA ARCHIVE DOCUMENT

EEB BRANCH REVIEW

DATE:	IN	-16-84		our _	8-29-8	4
FILE OR REG. NO		464-44	18/464-52	3		
PETITION OR EXP. P	ERMIT NO					
DATE OF SUBMISSION	entrologica de la rechesta ser des la rechesta de 	6-28-84				
DATE RECEIVED BY H	ED		7-13-84			
RD REQUESTED COMPL	ETION DATE		9-11-84			
EEB ESTIMATED COMP						
RD ACTION CODE/TYP	E OF REVIEW	575	/Amended	registra	ation	
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TYPE PRODUCT(S): I	, D, H, F,	N, R, S	Inse	ecticide		
DATA ACCESSION NO(s)	253708	} ************************************	والمعاد وموالها والمالية والم	and the second s	errophorusings sprawing and incoming and
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PRODUCT NAME(S)						
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SUBMISSION PURPOSE	Review M	odeling the	runoff a	and behav	vior of	
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Pesticide Name Chlorpyrifos

100 Submission Purpose

Data submission of an aquatic field residue monitoring and modeling study.

101 Hazard Assessment

101.4 Adequacy of Toxicity Data

The study was reviewed but not validated. Weaknesses of the study include the site selection and previous contamination. The highest level observed in the pond water was approximately 0.3 ppb which dissipated with a half-life of about 3 days. Concentrations of chlorpyrifos in pond sediment peaked at approximately 10 ppb. The levels of chlorpyrifos reported are indicative of potential hazard to aquatic organisms in waters receiving runoff from large agricultural areas. [G. Lacustris 96-hr LC50 = 0.11 ppb which is below the 0.3 ppb level reported].

103 Conclusions

The study submitted (Acc. No. 253708) may partially fulfill the Guidelines requirement for an acceptable aquatic field monitoring study requested in the Chlorpyrifos Registration Standard for agricultural crops. An additional study is needed which should also include population monitoring of sensitive aquatic organisms. Additional guidance regarding this study should be sought from the Ecological Effects Branch.

The submitted study (Acc. No. 253708) should be forwarded to the Ex-Note: posure Assessment Branch for formal validation. Information on the usefulness of the proposed model for extrapolating to larger field situations should be provided to EEB from EAB.

9-5-84

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9.4.84

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