FEE BRANCH REVIEW

•	DATE: IN OUT	IN 12/2/76UT 12/3/76 IN OUT
	FISH & WILDLIFE	ENVIRONMENTAL CHEMISTRY EFFICACY
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	FILE OR REG. NO. 100-LIT	
	PETITION OR EXP. PERMIT NO	
	DATE DIV. RECEIVED	
ν.	DATE OF SUBMISSION	
	DATE SUBMISSION ACCEPTED 3C	ID-2B-yes
	TYPE PRODUCT(S): I, D, (H) F, N, R, S Technical Product	
	PRODUCT MGR. NO. Jacoby 2	4 * ;
	PRODUCT NAME (S) CGA-24705 Technical	
	COMPANY NAME Ciba-Geigy	
	Registration for use in formulation of herbicides SUBMISSION PURPOSE	
	CHEMICAL & FORMULATION 2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-methylethyl) acetamide	

- 1.0 Antroduction
- 1.1 Active ingredient: 2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl acetamide 95%
- 1.1 Product name: CGA-24705 Technical
- 2.0 Directions for Use
- 2.1 No end uses other than formulation uses are proposed for this technical product.
- 3.0 Discussion of Data
- Environmental Chemistry data found in 2 volumes submitted with P.P. No. 5F1606 are referenced. An acceptable hydrolysis study and activated sludge study are not referenced. Other referenced data are not reviewed at this time since they are not relevant to the proposed use of this technical product.
- 4.0 Conclusions:
- 4.1 A hydrolysis study and activated sludge study will be needed.
- 5.0 Recommendations
- 5.1 We cannot concur with the proposed use of this technical product.
- 5.2 The following data will be needed.
 - (1) Hydrolysis. Hydrolysis data are required for all pesticides. Studies are conducted in darkness using radioisotopic or other comparable techniques at different pH values (acidic, neutral and basic) at two concentrations and two temperatures. Aliquots in duplicate should be taken at four sampling time intervals, with at least one observation made after one-half of the pesticide is hydrolyzed, or thirty days, whichever is shorter. A material balance (the total accountability at the completion of an experiment of the pesticide introduced into a defined system including both identified and unidentified products) half-life estimate, and identification of degradation products for the pesticide must be provided. Studies utilizing distilled water provide an upper limit estimate for persistence of pesticides in the aquatic environment. Hydrolysis in natural waters may be carried out to supplement studies in distilled water.

(Z) Activated Sludge Metabolism Pesticides discharged into waste water treatment systems may be transformed or disrupt the treatment process. A study of effects of pesticides on the wastewater treatment process is required. Synthetic sewage (nutrients) and radioisotope material are added to activated sludge and aerated in a closed system for 23 hours; the sludge is allowed to settle for 30 minutes. A liter of supernatant (effluent) is removed pesticide residue analysis including a material balance. Fresh synthetic sewage and test compound are added to the remaining sludge and the cycle including fresh synthetic sewage and test compound, is repeated. Dosage should start at 0.1 ppm and increase by increments to 100 ppm. Effects on microbial population must be determined by daily total counts of viable organisms

REMAY 12/8/74

in sludge.

Ronald E. Ney, 12/3/76 Environmental Chemistry Section

Arthur O. Schlosser

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