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9-28-76  
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EEE BRANCH REVIEW

DATE: IN 7/24/76 OUT 9/28/76 IN \_\_\_\_\_ OUT \_\_\_\_\_  
FISH & WILDLIFE ENVIRONMENTAL CHEMISTRY EFFICACY

FILE OR REG. NO. 241-ELN

PETITION OR EXP. PERMIT NO. \_\_\_\_\_

DATE DIV. RECEIVED \_\_\_\_\_

DATE OF SUBMISSION \_\_\_\_\_

DATE SUBMISSION ACCEPTED \_\_\_\_\_

TYPE PRODUCT(S): I, D, (H), F, N, R, S Selective Herbicide

PRODUCT MGR. NO. Mountfort

PRODUCT NAME(S) AVENGE WILD OAD HERBICIDE

COMPANY NAME American Cyanamid Company

SUBMISSION PURPOSE Resubmission for registration - BARLEY

CHEMICAL & FORMULATION \_\_\_\_\_

## AVENGE

### 100.0 Pesticidal Use

Avenge is a selective herbicide for postemergence control of wild oats.

### 100.1 Purpose of Submission -

Present basic test data requested in a previous review.

### 100.2 Data Submitted

(1) Aquatic Invertebrate LC<sub>50</sub> for Daphnia magna

(2) Acute Oral LD<sub>50</sub> for mallard duck

### 103.0 Toxicological Properties

#### 103.1 Acute Toxicity

<u>Organism</u>	<u>Test</u>	<u>Result</u>	<u>Material</u>	<u>Reference</u>
<u>Daphnia magna</u>	LC <sub>50</sub> (48 hr)	2.63 (2.15-3.2) ppm	Technical (100% active)	E.G. & G. Bionomics (1976)
	(24 hr)	3.48 (2.30-5.25) ppm	Acetone solvent	<del>42</del>
No discernable effect level 1.60 ppm				
Mallard Duck*	LD <sub>50</sub>	1577 (1130-2201) mg/kg	Technical	Truslow Farms (1976)

\*Note: 14 day old birds were used in this study.

### 104.2 Conclusions

The Daphnia and mallard duck acute toxicity data are acceptable and may be used to support registration.

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