EEB BRANCH REVIEW

DATE: IN 11-3-81 OUT 11-13-81

FILE OR REG. NO. 524-EUP-56

PETITION OR EXP. PERMIT NO.

DATE OF SUBMISSION 10/22/81

DATE RECEIVED BY HED 11/2/81

RD REQUESTED COMPLETION DATE 2/2/82

EEB ESTIMATED COMPLETION DATE

RD ACTION CODE/TYPE OF REVIEW 711/EUP

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

DATA ACCESSION NO(S).

PRODUCT MANAGER NO. R. Taylor (25)

PRODUCT NAME(S) MON-097

COMPANY NAME Monsanto Company

SUBMISSION PURPOSE Submission of Data For Review

SHAUGHNESSEY NO. CHEMICAL, & FORMULATION % A.I.

2-chloro-N-ethoxymethyl-N-(2-ethyl-6-methyl phenyl) acetamide 86.4%
100.0 **Pesticidal Use**

The herbicide MON 097 was first seen in this branch in Jan 1981 as an EUP. The proposed use pattern was corn and soybeans throughout the U.S. The basic studies were evaluated, but due to data deficiencies all studies were not accepted. Because all studies were not available, the hazards associated with the EUP program were not evaluated. The purpose of this review is not to evaluate the EUP which has been granted and conducted, but to evaluate the last of the basic studies.

103.0 **Fish and Wildlife Toxicity**

The following is a summary of ONLY the fish and wildlife toxicity tests submitted to date.

<table>
<thead>
<tr>
<th>Assesment #</th>
<th>Species</th>
<th>Test</th>
<th>Results</th>
<th>Formulation</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unknown</td>
<td>Bobwhite quail</td>
<td>Acute oral</td>
<td>LD$_{50}$=1560 mg/kg</td>
<td>Tech.</td>
<td>Core*</td>
</tr>
<tr>
<td>&quot;</td>
<td>Bobwhite quail</td>
<td>8-day dietary</td>
<td>LC$_{50}$ &gt;5620 ppm</td>
<td>Tech.</td>
<td>Core</td>
</tr>
<tr>
<td>&quot;</td>
<td>Mallard duck</td>
<td>8-day dietary</td>
<td>LC$_{50}$ &gt;5620 ppm</td>
<td>Tech.</td>
<td>Core</td>
</tr>
<tr>
<td>&quot;</td>
<td>Bluegill Sunfish</td>
<td>96 hr. LC$_{50}$ = 1.3 mg/l</td>
<td>Tech.</td>
<td>Invalid</td>
<td></td>
</tr>
<tr>
<td>&quot;</td>
<td>Rainbow trout</td>
<td>96 hr. LC$_{50}$ = 0.4 mg/l</td>
<td>Tech.</td>
<td>Core*</td>
<td></td>
</tr>
<tr>
<td>&quot;</td>
<td>Daphnia magna</td>
<td>48 hr. EC$_{50}$ = 1.4 mg/l</td>
<td>Tech.</td>
<td>Core*</td>
<td></td>
</tr>
<tr>
<td>246128</td>
<td>Bluegill Sunfish</td>
<td>96 hr. LC$_{50}$ = 1.3 mg/l</td>
<td>Tech</td>
<td>Core</td>
<td></td>
</tr>
</tbody>
</table>

* Studies reevaluated and upgraded to core by review dated 8-10-81 (R. Farringer)

104.1.3 **Adequacy of Toxicity Data**

The bluegill sunfish study is adequate to support registration of Mon 097 (acetochlor).

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