UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

SUBJECT: 16% Carbaryl Flea Collar for Dogs

FROM: Toxicology Branch

TO: Mr. Frank Sanders

Registration #2724-ETG

Thuron Industries
12200 Denton Drive
Dallas, Texas 75234

DATE: JAN 30 1976

Recommendations: Toxicology Branch recommends in favor of the registration of this collar.

Toxicology Branch previously objected to the registration of this collar (D. M. Reisa, 11-25-75) on the basis of an invalid cholinesterase study. In response, the registrant submitted the following study.

Cholinesterase Inhibition in Dogs

<table>
<thead>
<tr>
<th>Group</th>
<th># of animals</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>males</td>
</tr>
<tr>
<td>Controls</td>
<td>2</td>
</tr>
<tr>
<td>8.37% DDVP collars</td>
<td>2</td>
</tr>
<tr>
<td>16% carbaryl collar</td>
<td>4</td>
</tr>
</tbody>
</table>

Method Used: pH-Stat Method (titrimetric)

Samples Taken: -8, -6, -3, 0, 2, 4, 7, 16 days

Results: No detectable decrease in RBC or plasma cholinesterase was noted in this study.

Diana M. Reisa, Ph.D.
Toxicology Branch
Registration Division

CEP 11/30/76