R. E. Keller - Technology Department - South Second Street

DATE: June 8, 1971

SUBJECT: APPLIED SCIENCES - BIODEGRADATION PROGRAM

REFERENCE:

TO: W. B. Papageorge
General Offices

cc: W. R. Richard - GO
R. H. Munch - Res. 2
J. F. Herber - GO
M. F. Baber - GO
E. P. Wheeler - GO
M. W. Farrar - Res. 1
W. K. Johnson - GO
C. W. Roos - Res. 1
T. M. Patrick - Res. 1
E. S. Tucker - Res. 2
V. W. Saeger - Res. 2

This memo will serve as a summary of the status of our biodegradation program. To date, we have obtained primary biodegradation data for 15 products as shown in Table I. Degradation rates range from 0% for TCC in 24 hours to 97% for p-chlorcaniline. The Aroclor products are reported for 48 hours since it was necessary experimentally to use a longer period to obtain more reliable data.

Current and future work for method development and biodegradation testing for 17 additional products is summarized in Table II. We are currently expending 2.5 man total continuous effort and need to increase this to at least 3.0 man to maintain the schedule given. Assuming we receive no more biodegradation work, and including 10% additional effort for method and report write-ups, we will be busy until May, 1972.

The schedule is based upon our best information about priorities. Recipients of this memo are asked to please notify us if changes should be made.

REK

R. E. Keller

db
Attach. -2

0010178

TABLE I. BIODEGRADATION DATA

6-8-71

	% Biodegradation* In 24 Hours	In 48 Hours
Aroclor 1254	-	15 ± 38
Aroclor 1242	-	26 ± 15
MCS 1016	-	33 ± 14
Arobromochlor 1232	-	54 ± 19
MCS 1043	-	56 ± 16
Aroclor 1221	-	~70

*Via Semi-Continuous Activated Sludge Test

0010179