EXHIBIT NO. FOR IDENTIFICATION 1-19-83 JRD DATE: REPTR

SCIENTIFIC ASSOCIATES AROCLOR STUDIES

tudy Number	Laboratory	Author	Completion Date	Polychlorinated Biphenyl Product	Description
A-15	Scientific Associates	Fred M. Younger	11/10/53	Aroclor 1254	Oral LD-50
A-19	Scientific Associates	Fred M. Younger	12/11/53	Aroclor 1242	Oral LD-50
A- ?	Scientific Associates	Fred M. Younger	1/13/54	Aroclor 1248*	Oral LD-50 Inhalation Study Eye Irritation
A-91	Scientific Associates	Fred M. Younger	2/3/55	OS-63 Aroclor 1242 48%*	Oral LD-50 Skin Irritation and Absorption Eye Irritation Vapor Inhalation

YOUNGER LABORATORY STUDIES AROCLORS AND AROCLOR BLENDS

-57-22	Younger Lab	Fred Younger	7/9/57	Aroclor 1270	Oral LD-50 Eye Irritation Skin Irritation
-62-34	Younger Lab	Fred Younger	6/19/62	Aroclor 1242	Oral LD-50 Dermal LD-50
-62-35	Younger Lab	Fred Younger	6/19/62	Aroclor 1248	Oral LD-50 Dermal LD-50
-62-36	Younger Lab	Fred Younger	6/25/62	Aroclor 1254	Oral LD-50 Dermal LD-50

* Denotes Aroclor Blend.

udy Number	Laboratory	Author	Completion Date	Polychlorinated Biphenyl Product	Description
62-37	Younger Lab	Fred Younger	6/25/62	Aroclor 1260	Oral LD-50 Dermal LD-50
62-38	Younger Lab	Fred Younger	6/25/62	Aroclor 1262	Oral LD-50 Dermal LD-50
62-41	Younger Lab	Fred Younger	6/13/62	Aroclor 1221	Oral LD-50 Dermal LD-50
62 2	Younger Lab	Fred Younger	6/13/62	Aroclor 1268	Oral LD-50 Dermal LD-50
62-44	Younger Lab	Fred Younger	7/3/62	Aroclor 4465	Oral LD-50 Skin Absorption Skin and Eye Irritation
62-52	Younger Lab	Fred Younger	6/6/62	Aroclor 1232	Oral LD-50 Dermal LD-50
63-11	Younger Lab	Fred Younger	3/4/63	Pyranol 1470	Oral LD-50 Skin Absorption
63-12	Younger Lab	Fred Younger	3/4/63	Inerteen PPO	Oral LD-50 Skin Absorption Skin and Eye Irritation Vapor Inhalation
63-88	Younger Lab	Fred Younger	12/19/63	Aroclor 1242 74.8%* Aroclor 1221 12.4%*	Oral LD-50 Skin Absorption

Percent Shown for Blends.

WATER_PCB-00047075

y Number	Laboratory	Author	Completion Date	Polychlorinated Biphenyl Product	Description
-49	Younger Lab	Fred Younger	6/13/64	Therminol FRO MCS 29.5%*	Oral LD-50 Skin Absorption Skin and Eye Irritation
-214	Younger Lab	Fred Younger	1/12/66	Arcclor 1254 10%* Aroclor 1248 43.7%*	Oral LD-50 Oral MLD Skin Absorption Skin and Eye Irritation Vapor Inhalation
-151	Younger Lab	Fred Younger	10/17/66	Aroclor 1242 37.7%* Aroclor 1232 6%*	Oral LD-50 Skin Absorption Skin and Eye Irritation Vapor Inhalation
-164	Younger Lab	Fred Younger	11/9/66	Aroclor 1254 10%* Aroclor 1248 43.7%*	Oral LD-50 Skin Absorption MLD
-105	Younger Lab	Fred Younger	10/19/67	Aroclor 1242 20%*	Oral LD-50
-12/	Younger Lab	Fred Younger	1/13/69	Aroclor 1248	Oral LD-50 Dermal LD-50 Eye Irritation Skin Irritation
-133	Younger Lab	Melvin Birch	1/22/69	Fluorinated Aroclor 1254	Oral LD-50 Skin Absorption Skin and Eye Irritation

ercent Shown for Blends.

WATER_PCB-00047076

ly Number	Laboratory	Author	Completion Date	Polychlorinated Biphenyl Product	Description
)-41	Younger Lab	Melvin Birch	5/5/69	Aroclor 1242 30%*	Oral LD-50 Skin Absorption Skin and Eye Irritation Vapor Inhalation
)-42	Younger Lab	Melvin Birch	5/5/69	Aroclor 1242 40%*	Oral LD-50 Skin Absorption Skin and Eye Irritatio Vapor Inhalation
)-5ɔ	Younger Lab	Melvin Birch	7/7/69	Fluorinated Aroclor 1254	Oral LD-50 Skin Absorption Skin Irritation Eye Irritation Vapor Inhalation
)-54	Younger Lab	Melvin Birch	6/30/69	Brominated Aroclor 1221	Oral LD-50 Skin Absorption Skin Irritation Eye Irritation
)-74	Younger Lab	Melvin Birch	8/17/70	Aroclor 6062 Aroclor 5460 56%* Aroclor 1221 34%*	Oral LD-50 Skin Absorption Skin Irritation Eye Irritation
)-116	Younger Lab	Melvin Birch	12/14/70	Aroclor 4273 Aroclor 5442 73%* Aroclor 1221 27%*	Oral LD-50 Skin Absorption Skin Irritation Eye Irritation Vapor Inhalation
-14	Younger Lab	Melvin Birch	2/14/72	Aroclor 0114	Oral LD-50 Acute Skin Absorption Skin Irritation Eye Irritation

ercent Shown for Blends.

WATER_PCB-00047077

udy Number	Laboratory	Author	Completion Date	Polychlorinated Biphenyl Product	Description
71-105	Younger Lab	Melvin Birch	6/28/71	Aroclor 1272	Oral LD-50 Dermal LD-50 Eye Irritation Skin Irritation
71-187	Younger Lab	Melvin Birch	1/12/72	Aroclor 1016 44%* (German Mine Fluid)	Oral Lethal Dose Skin Absorption Skin Irritation Eye Irritation Vapor Inhalation
71-189	Younger Lab	Melvin Birch	1/12/72	Aroclor 1016 43%*	Oral LD-50 Skin Absorption Skin Irritation Eye Irritation
73-150	Younger Lab	Melvin Birch	9/17/73	MCS 1489	Oral LD-50 Acute Skin Absorption Skin Irritation Eye Irritation Vapor Inhalation
74-54	Younger Lab		7/10/74	Aroclor 1016	Tissue Residue accumulation and depletion study in rats
74-55	Younger Lab	Melvin Birch	6/8/74	Aroclor 1016 Aroclor 1242	Tissue Residue accumulation and depletion study in rats
75-0252	Younger Lab	Melvin Birch	10/22/75	Aroclor 1016	Oral LD-50 Dermal LD-50 Eye Irritation Skin Irritation

Percent Shown for Blends.

INDUSTRIAL BIO-TEST LABORATORIES, INC. AROCLOR STUDIES

Study Number	Laboratory	Author	Completion Date	Polychlorinated Biphenyl Product	Description
T-62-0004	IBT	Richard J. Palazzolo	3/28/63 3/27/63 3/4/63 3/29/63 3/28/63 5/17/63	Aroclor 1221 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1268 Aroclor 4465	Subacute dermal toxicity in rabbits
T-69-0033	IBT	Carmen Mastri	6/13/69	Aroclor 1242 Aroclor 1254 Aroclor 1260	96 hr. LC-50
T-70-0016	IBT	James L. Stephens	6/4/70	Aroclor 1242 Aroclor 1254 Aroclor 1260	Toxicity reproductio and residue study in white leghorn chicke
T-71-0001	IBT	Carmen Mastri	3/25/71	Aroclor 1016 Aroclor 1221	Oral LD-50 Dermal LD-50 Eye Irritation Skin Irritation Vapor Irritation
T-71-0067	IBT	Dale Fletcher	6/15/71	Aroclor 1242	Toxicity reproductio and residue study in white leghorn chicke
T-71-0068	IBT	Sandra Haley	11/1/71 11/1/71 11/4/71	Aroclor 1242 Aroclor 1254 Aroclor 1260	Three generation reproduction study in albino rats
T-71-0069	IBT	Philip S. Smith	11/12/71	Aroclor 1242 Aroclor 1254 Aroclor 1260	Two year chronic oral toxicity in albino rats

WATER_PCB-00047079

udy Number	Laboratory	Author	Completion Date	Polychlorinated Biphenyl Product	Description
-71-0069A	IBT	D.E. Gordon	3/24/75	Aroclor 1242 Aroclor 1254 Aroclor 1260	Re-evaluation of original report dated 11/12/71
-71-0070	IBT	Bruce R. Burtner	11/1/71	Aroclor 1242 Aroclor 1254 Aroclor 1260	Two year chronic oral toxicity in beagle dogs
-71-0071	IBT	James B. Plank	9/8/71	Aroclor 1242	Teratogenic study in albino ra
-71-0072	IBT	James B. Plank	9/8/71	Aroclor 1254	Teratogenic study in albino rats
-71-0073	IBT	James B. Plank	9/9/71	Aroclor 1260	Teratogenic study in albino rats
-71-0136	IBT	Dennis Arnold	1/13/72	Aroclor 1260	Mutagenic study in mice
-72-64	IBT	--	--	Aroclor 1260 treated	4-Day fish toxicit studies
-72-0082	IBT	John W. Goode	1972	Aroclor 1242	96 hr. LC-50
-72-0103	IBT	Kenneth Ebbens	11/17/72	Aroclor 1242 Aroclor 1254 Aroclor 1260	96 hr. LC-50
-72-0129	IBT	John Hamlin	1/12/72	Aroclor 1016 Aroclor 1221	196 Hr. LC-50
-72-131	IBT	Unknown	12/30/71	Aroclor 1221	90-Day subacute oral toxicity study in beagle dogs
-72-0133	IBT	Bruce R. Burtner	12/31/72	Aroclor 1016	90-Day subacute oral toxicity study i dogs

WATER_PCB-00047080

idy Number	Laboratory	Author	Completion Date	Polychlorinated Biphenyl Product	Description
-72-0134	IBT	Dennis Arnold	1/31/72	Aroclor 1242	Mutagenic study in mice
-72-0135	IBT	Dennis Arnold	1/13/72	Aroclor 1254	Mutagenic study in mice
-72-0137	IBT	Philip S. Smith	4/28/72	Aroclor 1016 Aroclor 1221	90-Day subacute oral toxicity study in rats
-72-0138	IBT	Dale Fletcher	6/20/72	Aroclor 1016	Toxicity reproduction and residue study in white leghorn chickens
-72-0139	IBT	Dale Fletcher	6/20/72	Aroclor 1221	Toxicity reproduction and residue study in white leghorn chickens
-73-0070	IBT	Dale Fletcher	1973	Aroclor 1242	Toxicity and reproduction study in white leghorn chickens
-74-69	IBT	Gary Rausina	--	MSC 1489	4-Day fish toxicity study

MISCELLANEOUS STUDIES

Study Number	Laboratory	Author	Completion Date	Polychlorinated Biphenyl Product	Description
-54-0050	Kettering	Joseph F. Trevon Frank P. Cleveland John Cappel Frederic E. Shaffer Raleph W. Atchley John P. Torbeck	6/22/55	Aroclor 1242 Aroclor 1254	Inhalation exposure of cats, guinea pigs, mice, rabbits and rats
-	Monsanto	William Gaffey Ferdinand Meyer Judith Zack	Incomplete	Various	Mortality study of some PCB production workers
-	Harvard Medical School	C. E. Drinker	1937	Aroclor 1268	Inhalation studies on rats
-	Barnard Free Skin & Cancer Hospital	L. K. Halpern	1949	Aroclor 1254	Human patch study
-	Litton Bionetics	P. E. Berteau	Incomplete	Aroclor 1254	Reproduction study in rhesus monkeys