| STUDY NO. | LABORATORY | AUTHOR | COMPLETION DATE | POLYCHLORINATED BIPHENYL PRODUCT | TITLE | DESCRIPTION |
|---|---|---|---|---|---|---|
| AB-78-114 | ANALYTICAL BIO CHEM LAB. | WM. MCALLISTER | 6-20-78 | TRIPHENYL PHOSPHATE TPP | ACUTE TOXICITY OF TRIPHENYL PHOSPHATE TO DAPHNIA MAGNA | STATIC FISH TOX BIOASSAY |
| AB-78-123 | " " | " " | 4-30-78 | TECHNICAL GLYPHOSATE | ACUTE TOXICITY OF TECHNICAL GLYPHOSATE TO BLUEGILL SUNFISH | STATIC FISH ACUTE TOX BIOASSAY |
| AB-79-95 | " " | C. THOMPSON | 7-10-79 | WCM | ACUTE TOXICITY OF WCM TO FATHEAD MINNOW | $LC_{50}$ LEVELS TO FATHEAD MINNOWS |
| AB-79-96 | " " | " " | 7-10-79 | WCM | ACUTE TOXICITY OF WCM TO DAPHNIA MAGNIA | $LC_{50}$ LEVELS TO DAPHNIA MAGNIA |
| AB-79-135 | " " | " " | 7-10-79 | THERMINOL 66 | ACUTE TOXICITY OF THERMINOL 66 TO FATHEAD MINNOW | $LC_{50}$ LEVELS TO FATHEAD MINNOW |
| AB-79-136 | " " | " " | 6-7-79 | THERMINOL 66 | ACUTE TOXICITY OF THERMINOL 66 TO DAPHNIA MAGNIA | $LC_{50}$ LEVELS TO DAPHNIA MAGNIA |
| AB-79-138 | " " | JERRY GRIFFIN C THOMPSON W.M. MCALLISTER A.D. FORBIS | 4-4-79 | SANTOSOL 100 | ACUTE TOXICITY OF SANTOSOL 100 TO RAINBOW TROUT | 4-DAY STATIC FISH TOXICITY STUDY |



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| STUDY NO. | LABORATORY | AUTHOR | COMPLETION DATE | POLYCHLORINATED BIPHENYL PRODUCT | TITLE | DESCRIPTION |
|---|---|---|---|---|---|---|
| AB-79-205 | ANALYTICAL BIO CHEM. LABS | J. GRIFFIN C. THOMPSON A. FORBIS | 5-7-79 | THERMINOL VP1 | ACUTE TOXICITY OF THERMINOL VP1 TO RAINBOW TROUT | 4-DAY STATIC FISH TOXICITY STUDY |
| AB-79-206 | " " | C. THOMPSON | 8-14-79 | THERMINOL VP1 | ACUTE TOXICITY OF THERMINOL VP1 TO FATHEAD MINNOW | 4-DAY STATIC FISH TOXICITY STUDY |
| AC-75-55-59 SAME AS CINCLUDES MO-77-596- THRU (616) | MONSANTO INDUST. CHEM. CO. | D. HICKS R. KALEY V. SAEGER J. MIELKE | 3-18-76 | PHOSPHATE ESTER | BIODEGRADABILITY OF PHOSPHATE ESTERS | BIODEGRADATION TESTING |

| STUDY NO | LAB | AUTHOR | COMP. DATE | PCB PROD. | TITLE | DESCRIPTION 3 |
|---|---|---|---|---|---|---|
| B10-77-327 | LITTON BIONETICS | DR. JAGANNATH | DEC. 1977 | AROCLOR 1254 | FINAL REPORT MUTAGENICITY PLATE ASSAY B10-77-327-CP 7505C - (RATS) | MUTAGENICITY PLATE ASSAY |
| B10-77-328 | " " | DR. JAGANNATH D.J. BUSICK | " " | CP 2321 SR TERPHENYLS, MIXED ISOMERS | MUTAGENICITY EVALUATION OF B10-77-328-CP 2321 SR (RATS) | MUTAGENICITY PLATE ASSAY |
| BN-77-410A | E G & G BIONOMICS | JOSEPH SOUSA | MAR. 1978 | PYDRAUL R 230C | ACUTE TOXICITY OF PYDRAUL R 230C TO RAINBOW TROUT | ACUTE TOXICITY |
| BN-77-410B | " " " | " " | " " | " " " | ACUTE TOXICITY OF PYDRAUL R 230C TO FATHEAD MINNOW | ACUTE TOXICITY |
| BN-77-410C | " " " | G. LEBLANC | " " | " " " | ACUTE TOXICITY OF PYDRAUL R 230C TO THE WATER FLEA | ACUTE TOXICITY |
| BN-77-412A | " " " | JOSEPH SOUSA | " " | PYDRAUL R mc | ACUTE TOXICITY OF PYDRAUL R mc TO THE RAINBOW TROUT | ACUTE TOXICITY |
| BN-77-412B | " " " | " " | " " | PYDRAUL R mc | ACUTE TOXICITY OF PYDRAUL R mc TO FATHEAD MINNOW | ACUTE TOXICITY |
| BN-77-412C | " " " | G. LEBLANC | " " | PYDRAUL R mc | ACUTE TOXICITY OF PYDRAUL R mc TO THE WATER FLEA | ACUTE TOXICITY |



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| STUDY NO. | LABORATORY | AUTHOR | COMPLETION DATE | POLYCHLORINATED BIPHENYL PRODUCT | TITLE | DESCRIPTION |
|---|---|---|---|---|---|---|
| BN-78-373 (1) | EG&G BIONETICS | TOM HEITMULLER | SEPT. 1978 | TRIPHENYL PHOSPHATE | ACUTE TOXICITY OF TRIPHENYL PHOSPHATE TO MYSID SHRIMP | ACUTE TOXICITY |
| BN-78-373 (2) | " " | " " | " " | " " | ACUTE TOXICITY OF TRIPHENYL PHOSPHATE TO SHEEPSHEAD MINNONS | ACUTE TOXICITY |
| BN-78-373 (A) | " " | TERRY HOLLISTER | " " | " " | ACUTE TOXICITY OF TRIPHENYL PHOSPHATE TO THE FRESH WATER ALGA | ACUTE TOXICITY |
| BN-79-93 | " " | " " | APR, 1979 | SANTOWAY G-HYDROGENATED O-WATER PHENYL 40% | ACUTE TOXICITY OF WEMTO THE FRESHWATER ALGA | ACUTE TOXICITY |
| BN-79-137 | " " | T. HOLLISTER P. SHUBA R. PARRISH | APR., 1979 | THERMINOL 66-HYDROGENATED TERPHENYL | TOXICITY OF THERMINOL-66 TO THE FRESH WATER ALGA | PHYTOTOXICITY |
| BO-78-83 | LITTON BIONETICS | D.R. JAGANNATH | 6-22-78 | TRIPHENYL PHOSPHATE | MUTAGENICITY EVALUATION OF TRIPHENYL PHOSPHATE | MUTAGENICITY |
| BO-78-87 | " " | M.S. REED | 8-9-78 | " " | MUTAGENICITY EVAL. OF TRIPHENYL PHOSPHATE | MUTAGENICITY |
| BO-79-204 | EG.&G BIONETICS | T. HOLLISTER P. SHUBA R. PARRISH | APR. 1979 | THERMINOL VP1 BIPHENYL 26.5% | TOXICITY OF THERMINOL VP1 TO THE FRESHWATER ALGA | PHYTOTOXICITY |

| STUDY NO. | LABORATORY | AUTHOR | COMPLETION DATE | POLYCHLORINATED BIPHENYL PRODUCT | TITLE | DESCRIPTION |
|---|---|---|---|---|---|---|
| ~~BT-62-0004~~ (SEE BTL-62-4) | INDUST. BIO LAB | R.J. PALLAZO | MAR. 4, 27, 28, 29 MAY, 17 - 1963 | AROCLORS 1221, 1242, 1248 1254, 1268, 4465, 5460 | SUBACUTE DERMAL TOXICITY OF AROCLORS, 1221, 1242, 1248, 1254, 1268, 4465 & 5460 | SUB ACUTE DERM TOXICITY IN RABBITS |
| BT-67-12 (ALSO BTL) | " " " | C. WOLF | 10-18-67 | AROCLOR 5460 | 90-DAY SUBACUTE ORAL TOXICITY OF AROCLOR 5460 - ALBINO RATS | 90-DAY SUBACUTE ORAL TOXICITY |
| BT-67-12A (ALSO BTL) | " " " | GREENIE JACKSON | 12-18-67 | AROCLOR 5460 | 90-DAY SUBACUTE ORAL TOX. OF AROCLOR 5460 ALBINO RATS | CHICKEN TOXICITY STUDY |
| BT-67-12B (ALSO BTL) | " " " | " " | 7-11-67 | AROCLOR 5460 | 90-DAY SUBACUTE ORAL TOXICITY OF AROCLOR 5460 ALBINO RATS | EGG HATCHABILITY & CHICKEN VIABILITY STUDY |
| BT & BTL - 69-33 | " " " | CARMEN MASTRI M.L. KEPLINGER OTIS FANCHER | 6-19-69 | AROCLORS: 1242, 1254, 1260 & 5460, TOXAPHENE, TECH. DDT, HALOWAX 1099, 52% Cl TRICHLOROBIPHENYL | 4-DAY FISH TOXICITY STUDIES ON PREFERENCE 7 MATERIALS | TOXICITY - 96-HR LC 50 |
| BT-70-16 | " " " | J. STEPHENS | 6-4-70 | AROCLOR: 1242, 1254 & 1260 TRICHLOROBIPHENYL | TOXICITY REPRODUCTION & RESIDUE STUDY ON AROCLOR 1242, 1254 & 1260 IN WHITE LEGHORN CHICKENS | TOXICITY REPRODUCTION RESIDUE |
| BT-71-1 | " " " | CARMEN MASTRI | 3-25-71 | AROCLOR; 1221, 5442, & MCS-1016 | ACUTE TOXICITY STUDIES WITH AROCLORS, 1221, 5442 & MCS-1016 | ACUTE ORAL & DERMAL TOXICITY. EYE & SKIN IRRIT, |
| BT-71-11 | " " " | J. PLANK | 9-8-71 | AROCLOR 1242 | TERATOGENIC STUDY WITH AROCLOR 1242 IN ALBINO RATS | TERATOGENIC STUDIES |
| BT-74-55 (SEE BTL-74-55) | — | — | — | — | RESULTS OF 4-DAY STATIC FISH TOXICITY SCREEN IN RAINBOW TROUT & BLUEGILL | STATIC FISH TOXICITY |
| ~~BT-74-73~~ (+ BTL) | INDUST. BIO LAB | TERRY MEYERS | 2-7-73 | SANTOSOL 100 | ACUTE AEROSOL INHALATION TOXICITY STUDY WITH SANTOSOL 100 IN RATS | ACUTE INHALATION TOXICITY |
| BTL-62-4 (SEE BT-62-0004) | " " " | R. PALAZZOLO | 3-28-63 | AROCLORS: 1232, 1254 TRICHLORO BIPHENYL | SUBACUTE DERMAL TOXICITY OF AROCLORS: 1232 & 1254 | SUBACUTE DERMAL TOXICITY |
| BTL-70-11 | " " " | C. MASTRI M. KEPLINGER S. FANCHER | 6-28-70 5-14-71 9-18-70 | HB-40 (THERMINOL 66) HYDROGENATED TERPHENYL | ACUTE TOXICITY STUDIES ON HB-40 IN ALBINO RATS | ACUTE ORAL DERMAL TOX EYE IRRIT PRIMARY SKIN IRRIT |



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| STUDY NO | LAB | AUTHOR | COMP. DATE | PCB PROD. | TITLE | DESCRIPTION |
|---|---|---|---|---|---|---|
| BTL-71-1 | INDUST. BIOTEST LABS | DONN HATHAWAY | 1-28-71 | MC S-1016 | ACUTE VAPOR INHALATION TOX. STUDY WITH MCS 1016 IN ALBINO RATS | ACUTE VAPOR INHALATION TOX. STUDY IN ALBINO RATS |
| BTL-71-11 | " " | ROBERT LAOD | 6-24-71 | C P 41845 TECK | MEAT RESIDUE STUDY WITH CP41845 TECH. IN CROSSBRED SWINE | MEAT RESIDUE STUDY IN CROSSBRED SWINE |
| BTL-71-67 | " " | DALE FLETCHER | 6-15-71 | AROCLOR 1242 | TOXICITY REPROD. & RESIDUE STUDY WITH AROCLOR 1242, LOT # AK-255 IN WHITE LEGHORN CHICK. | TOX. REPROD & RESIDUE STUDY IN WHITE LEGHORN CHICKENS |
| #1 BTL-71-68 | " " | S. HALEY | 11-1-71 11-1-71 | AROCLOR 1242 AROCLOR 1254 | 3-GENERATION REPROD. STUDY WITH AROCLOR 1242 IN ALBINO RATS | 3-GEN. REPROD STUDY IN ALBINO RATS |
| #2 BTL-71-68 | " " | S. HALEY | 11-4-71 | AROCLOR 1260 | 3-GENERATION REPROD STUDY WITH AROCLOR 1254 IN ALBINO RATS | 3-GEN. REPROD. STUDY IN ALBINO RATS |
| #1 BTL-71-69 | " " | P.S. SMITH DR. GORDEN | 11-12-71 3-24-75 | AROCLOR-1254 | 2-YEAR CHRONIC ORAL TOXICITY WITH AROCLOR 1254 IN ALBINO RATS | 2-YR CHRONIC ORAL TOX. IN ALBINO RATS |
| #2 BTL-71-69 | " " | P.S. SMITH | 11-12-71 | AROCLOR 1242 | 2YEAR CHRONIC ORAL TOXICITY WITH AROCLOR 1242 IN ALBINO RATS | 2YR CHRONIC ORAL TOX. IN ALBINO RATS |
| #3 BTL-71-69 | " " | P.S. SMITH | 11-12-71 | AROCLOR 1260 | 2YEAR CHRONIC ORAL TOXICITY STUDY WITH AROCLOR 1260 IN ALBINO RATS | 2YR CHRONIC ORAL TOX. IN ALBINO RATS |
| #1 BTL-71-70 | " " | B. BURTNER | 11-1-71 | AROCLOR 1242 | 2 YEAR CHRONIC ORAL TOXI. STUDY WITH AROCLOR 1242 IN BEAGLE DOGS | 2 YR CHRONIC ORAL STUDY WITH BEAGLE DOGS |
| #2 BTL-71-70 | " " | " " | 11-1-71 | AROCLOR 1254 | 2YR. CHRONIC ORAL TOX. STUDY WITH BEAGLE DOGS | 2YR. CHRONIC ORAL TOX. STUDY IN BEAGLE DOGS |
| #3 BTL-71-70 | " " | " " | 11-1-71 | AROCLOR 1260 | 2YR. CHRONIC ORAL TOX. STUDY WITH AROCLOR 1260 IN BEAGLE DOGS | 2YR CHRONIC TOX. STUDY WITH AROCLOR 1260 IN BEAGLE |

| STUDY NO | LAB | AUTHOR | COMP. DATE | PCB PROD. | TITLE | DESCRIPTION |
|---|---|---|---|---|---|---|
| BTL-71-71 | INDUST. BIO. LAB | J.B. PLANK | 9-8-71 | AROCLOR 1242 | TERATOGENIC STUDY WITH AROCLOR 1242 IN ALBINO RATS | BODY WGT. DATA MORT. & REACTIONS REPROD. & EXT. TERA EFFECTS |
| BTL-71-72 | " " " | " " | 9-8-71 | AROCLOR 1254 | SAME AS ABOVE WITH AROCLOR 1254 | " " " " |
| BTL-71-73 | " " " | " " | 9-9-71 | AROCLOR 1260 | TERATOGENIC STUDY WITH AROCLOR 1260 IN ALBINO RATS | " " |
| BTL-71-136 | " " " | D. ARNOLD | 1-13-72 | AROCLOR 1260 | MUTAGENIC STUDY IN MICE | MUTAGENIC STUDY |
| BTL-72-16 | " " " | M.S. REYNA | 10-3-72 | THERMINOL 55 HEAT TRANSFER LIQUID | 90-DAY SUBACUTE ORAL TOXICITY STUDY WITH THERMINOL 55 HT, TRANS, LIQUID IN ALBINO RATS | ORAL TOXICITY |
| BTL-72-17 | " " " | DALE FLETCHER | 6-23-72 | THERMINOL 55 | 30-DAY FEEDING STUDY WITH THERMINOL 55 IN WHITE LEGHORN CHICKENS | ORAL TOXICITY |
| BTL-72-18 | " " " | " " | 12-18-72 | THERMINOL 55 | TOXICITY REPRODUCTION & RESIDUE STUDY WITH THERMINOL 55 IN WHITE LEGHORN CHICKENS | REPRODUCTION & RESIDUE. TOXICITY |
| BTL-72-19 | " " " | " " | 6-26-72 | THERMINOL 66 | 30-DAY FEEDING STUDY WITH THERMINOL 66 IN WHITE LEGHORN CHICKENS | FEEDING STUDY |

| STUDY NO | LAB | AUTHOR | COMP. DATE | PCB PROD. | TITLE | DESCRIPTION |
|---|---|---|---|---|---|---|
| BTL-72-20 | INDUST. BIO LAB | DALE FLETCHER | 12-18-72 | THERMINOL 66 | TOXICITY REPRODUCTION & RESIDUE WITH THERMINOL 66 IN WHITE LEGHORN CHICKENS | TOXICITY REPRODUCTION RESIDUE |
| BTL-72-21 | " " " | M. S. REYNA | 9-14-72 | THERMINOL 66 HEAT TRANSFER LIQUID | 10-WEEK SUB ACUTE ORAL TOXICITY STUDY WITH THERMINOL 66 HT. TRANS. LIQUID IN ALBINO RATS | SUBACUTE ORAL TOXICITY STUDY |
| BTL-72-32 | " " " | JOHN HAMLIN CARMEN MASTRI | 4-4-72 | MCS-1175-LOT QA-1 | RESULTS OF 4-DAY STATIC FISH TOXICITY STUDIES WITH MCS-1175 LOT QA-1 IN RAINBOW TROUT & BLUEGILL | STATIC FISH STUDY (TOXICITY) |
| BTL-72-33 | " " " | JOHN HAMLIN CARMEN MASTRI | 5-24-72 | THERMINOL 55 | RESULTS OF 4-DAY STATIC FISH TOXICITY WITH THERMINOL -55 IN RAINBOW TROUT BLUEGIL | STATIC FISH TOXICITY STUDY |
| BTL-72-34 | " " " | JOHN O'H RICE | 5-24-72 | THERMINOL 66 | 4-DAY STATIC FISH TOXICITY STUDIES WITH THERMINOL 66 IN RAINBOW TROUT & BLUEGILL | STATIC FISH TOXICITY STUDY |
| BTL-72-35 | " " " | " " " | 5-24-72 | THERMINOL 77 | 4-DAY STATIC FISH TOXICITY STUDY WITH THERMINOL 77 IN RAINBOW TROUT | STATIC FISH TOXICITY STUDY |
| BTL-72-36 | " " " | " " " | 5-24-72 | THERMINOL 88 | 4-DAY STATIC FISH TOXICITY STUDY WITH THERMINOL 88 IN RAINBOW TROUT & B.GILL | FISH TOXICITY STUDY |
| (+BT) BTL-72-5451 | " " " | " " " | 6-30-72 | TPP - LOT KB02-155 WHITE PWDR. | 4-DAY STUDY - STATIC FISH TOXICITY - RAINBOW TROUT & BLUEGILL | FISH TOXICITY STUDY |

| STUDY NO | LAB | AUTHOR | comp. DATE | PCB PROD. | TITLE | DESCRIPTION 9 |
|---|---|---|---|---|---|---|
| BTL-72-59. | INDUST. BIO. LABS | GARY RAUSINA | 1972 | HIGH BOILING FRACTION PFP OR M9451A | RESULTS OF 4-DAY STUDY STATIC FISH TOXICITY-RAINBOW TROUT | TOXICITY STUDY FISH |
| BTL-72-60 | " " " | " " | 1972 | CUT #4 PFP | 4 DAY STUDY STATIC FISH TOXICITY IN RAINBOW TROUT | TOXICITY STUDY FISH |
| BTL-72-61 | " " " | " " | 1972 | PFP | SAME AS ABOVE | TOXICITY STUDY FISH |
| BTL-72-62 | " " " | " " GARY RAUSINA | 1972 | PFP | " " " | TOXICITY STUDY FISH |
| BTL-72-63 | " " " | " " | 1972 | PFP | " " " | TOXICITY STUDY FISH |
| BTL-72-64 | " " " | — | 1972 | AROCLOR 1260 | RESULTS OF 4-DAY STATIC FISH TOXICITY STUDIES IN RAINBOW TROUT (WITH 1260 AROCLOR) | TOXICITY STUDY FISH |
| (+DT) BTL-72-74 | " " " | DALE FLETCHER | 1-17-73 | TPP | NEUROTOXICITY STUDY WITH TPP IN CHICKENS | NEURO-TOXICITY STUDY CHICKENS |
| DO NOT HAVE COPIES BTL-59 THRU-BTL-63 | | | | | | |



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| STUDY NO. | LABORATORY | AUTHOR | COMPLETION DATE | POLYCHLORINATED BIPHENYL PRODUCT | TITLE | DESCRIPTION |
|---|---|---|---|---|---|---|
| BT-72-0082 | INDUST. BIO. | JOHN N. GOODE | 1972 | AROCLORS 1242, 1254, 1260 | RESULTS OF 4-DAY STATIC FISH TOXICITY STUDIES RAINBOW TROUT & BLUEGILL | 96-HR LC-50 |
| BTL-72-825 (ALSO-BT) | INDUST. BIO LABS | GARY RAUSINA | 11-17-72 | AROCLOR 1242 | RESULTS OF 4-DAY STATIC FISH TOXICITY STUDIES IN RAINBOW TROUT & BLUEGILLS | 96-HR-LC50 |
| BTL-72-83 (ALSO-BT) | " " | CANNOT READ PROBABLY ALSO BY RAUSINA | 1972 | SANTOSOL 300, LOT AA2 YELLOW LIQUID - 1.0 * 100% SOL. IN ACETONE | RESULTES OF 4 DAY STATIC FISH TOXICITY STUDIES IN RAINBOW TROUT & BLUEGILL | TOXICITY STUDY |
| (BT) BTL-72-103 | " " | KENNETH EBBENS | 11-17-72 | AROCLOR -1242<br>" 1254<br>" 1260 | 4-DAY FISH TOXICITY STUDY WITH AROCLORS, 1242, 1254 & 1260 IN BLUEGILL & CHANNEL CATFISH | 96-HR-LC50 |
| BTL-129 (BTL-72-129) | " " | JOHN HAMLIN | 11-12-72 | AROCLOR 1221 - MCS-1016<br>" 5432<br>" 5442<br>" 5460 | 4-DAY STATIC FISH TOXICITY STUDY WITH AROCLORS 1221, 5432, 5442 5460 & MCS-1016 IN BLUEGILL & CHANNEL CATFISH | 96-HR-LC50 |
| BTL-130 (BTL-72-130) | " " | DENNIS YOST | 1-31-72 | AROCLOR 5432 | 90-DAY SUBACUTE ORAL TOX. STUDY WITH AROCLOR 5432 IN BEAGLE DOGS | 90-DAY SUBACUTE ORAL TOXICITY STUDY IN BEAGLE DOGS |

| STUDY NO | LAB | AUTHOR | COMP. DATE | PCB PROD. | TITLE | DESCRIPTION |
|---|---|---|---|---|---|---|
| BTL-72-134 | INDUST. BIO LAB. | DENNIS ARNOLD | 1-13-72 | AROCLOR 1242 | MUTAGENIC STUDY WITH AROCLOR 1242 IN ALBINO MICE | MUTAGENIC STUDY |
| BTL-72-135 | " " " | DENNIS ARNOLD | 1-13-72 | AROCLOR 1254 CHLORINATED BIPHENYL 54 90% | MUTAGENIC STUDY WITH AROCLOR 1254 IN ALBINO, MICE | MUTAGENIC STUDY |
| BTL-72-136 | INDUST. BIO LAB | DENNIS ARNOLD | 1-13-72 | AROCLOR 1260 | MUTAGENIC STUDY WITH AROCLOR 1260 IN ALBINO MICE | MUTAGENIC STUDY |
| BTL-72-137 | INDUST. BIO. LAB | PHILLIP SMITH | 4-28-72 | AROCLOR - 5432<br>" 5442<br>" 1221<br>MCS- 1016 | 90-DAY SUB ACUTE ORAL TOX. STUDY WITH AROCLOR 5432, 5442, 1221 & MCS-1016 IN ALBINO RATS | 90-DAY ORAL TOX. |
| BTL-72-138 | " " " | DALE FLETCHER | 6-20-72 | MCS-1016 | TOXICITY REPRODUCTION & RESIDUE STUDY WITH MCS-1016 IN WHITE LEGHORN CHICKENS | 90-DAY ORAL TOX. |
| BTL-72-139 | " " " | " " | 6-20-72 | AROCLOR 1221 | TOXICITY REPRODUCTION & RESIDUE STUDY WITH AROCLOR 1221 IN WHITE LEGHORN CHICKENS | TOX. REPROD RESIDUE |
| BTL-72-140 | INDUST. BIO LAB. | DALE FLETCHER | 6-20-72 | ACL-60 | TOXICITY & REPRODUCTION STUDY WITH ACL-60 IN DUCKS | $LD_{50}$ DUCKS |
| BTL-72-141 | " " " | " " | 6-20-72 | ACL-60 | TOXICITY & REPRODUCTION STUDY WITH ACL-60 IN QUAIL | $LD_{50}$ QUAIL |



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| STUDY NO. | LABORATORY | AUTHOR | COMPLETION DATE | POLYCHLORINATED BIPHENYL PRODUCT | TITLE | DESCRIPTION |
|---|---|---|---|---|---|---|
| BTL-72-131 | INDUST. BIO LAB | B.R. BURTNER | 12-30-71 | AROCLOR #1221 | 90-DAY SUBACUTE ORAL TOXICITY STUDY WITH AROCLOR 1221 IN BEAGLE DOGS | ORAL TOXICITY IN DOGS |
| BTL-72-132 | " " " | " " | 1-31-72 | AROCLOR #5442 | 90-DAY SUB ACUTE ORAL TOXICITY STUDY WITH AROCLOR 5442 IN BEAGLE DOGS | ORAL TOXICITY IN DOGS |
| BTL-72-133 | " " " | D.C. LIN | 1-31-72 | MCS-1016 | 90-DAY SUBACUTE ORAL TOXICITY STUDY WITH MCS-1016 IN BEAGLE DOGS | ORAL TOXICITY IN DOGS |

| STUDY NO | LAB | AUTHOR | COMP. DATE | PCB PROD. | TITLE | DESCRIPTION 13 |
|---|---|---|---|---|---|---|
| BTL-72-141A | INDUST. BIO LABS | DALE FLETCHER | 6-20-72 | DECHLORANE PLUS<br>" 602<br>" 604 | 4-DAY STATIC FISH STUDY WITH DECHLORANE PLUS - DECH-602 - DECH-604 | STATIC FISH TOXICITY |
| BTL-73-70 | " " " | " " | 6-7-73 | AROCLOR-1242 HALOGENATED BIPHENYL | TOXICITY REPRODUCTION & RESIDUE STUDY WITH AROCLOR 1242 IN WHITE LEGHORN CHICKENS | TOX. REPROD. |
| BTL-74-55 | " " " | GARY RAUSINA | 1974 | SANTICIZER 384-F<br>EB-077-3<br>TRANS. LIQUID | RESULTS OF 4-DAY STATIC FISH TOXICITY SCREEN RAINBOW TROUT & BLUEGILLS | STATIC FISH TOXICITY |
| BTL-74-69 (1+2) | " " " | GARY RAUSINA | 1974 | MSL 1489, MIC 242386<br>10, 1.0 OR 0.1% SOL. IN ACETONE | RESULTS OF 4-DAY STATIC FISH TOXICITY SCREEN - RAINBOW TROUT & BLUEGILL | ACUTE LC 50 11.1 mg/L |
| BTL-74-73 (4 BT) | " " " | TERRY MEYERS | 2-7-75 | SANTOSOL 100 | ACUTE AEROSOL INHALATION TOXICITY WITH SANTOSOL 100 IN RATS | ACUTE INHAL. TOX. |
| BTL-74-74 | " " " | TERRY W. MEYERS | 2-7-75 | SANTOSOL R 340<br>UNDILUTED AEROSOL | ACUTE AEROSOL INHALATION TOXICITY STUDY WITH SANTOSOL R 340 IN RATS | AEROSOL INHALATION |
| BTL-74-82 | " " " | WM. C. BREWER | 9-20-76 | SANTOSOL R 340<br>LOT QD-23200 | 30-DAY PILOT AEROSOL INHALATION TOXICITY STUDY WITH SANTOSOL R 340 LOT QD-23200 IN RATS | INHALATION TOXICITY |
| BW-78-3-082 | EG&G LAB | G. LEBLANC | MAR. 1978 | PYDRAUL MC | ACUTE TOXICITY OF PYDRAUL MC TO THE WATER FLEA | ACUTE TOXICITY |



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| STUDY NO. | LABORATORY | AUTHOR | COMPLETION DATE | POLYCHLORINATED BIPHENYL PRODUCT | TITLE | DESCRIPTION |
|---|---|---|---|---|---|---|
| DA-78184 | DMEH | F.A. KULIK<br>W.D. ROSS | 12-5-78 | HB-40 HYDROGENATED TERPHENYL | SAMONELLA MUTAGENICITY ASSAY OF HB-40 | MUTAGENICITY ASSAY |
| HL-72-142 | HAZELTON LAB | DALE FLETCHER | 6-20-72 | LEVODOPA | 90-DAY ORAL TOXICITY STUDY WITH LEVODOPA IN RATS | ORAL TOXICITY RATS |
| HL-72-143 | " " | " " | 6-20-72 | LEVODOPA | 90-DAY ORAL TOXICITY STUDY WITH LEVODOPA IN DOGS | ORAL TOXICITY DOGS |
| HL-72-144 | " " | " " | 6-20-72 | LEVODOPA | 1-YEAR CHRONIC WITH LEVODOPA IN DOGS | STUDY - LEVODOPA IN DOGS |
| HL-72-145 SEE LAST PAGE FOR LATEST | " " | " " MONKEY STUDIES | 6-20-72 | LEVODOPA | 1 YEAR CHRONIC WITH LEVODOPA IN MONKEYS | STUDY - LEVODOPA IN MONKEYS |
| HL-72-146 | " " | " " | 6-20-72 | LEVODOPA | 18-MO. - CHRONIC WITH LEVODOPA IN RATS | STUDY LEVODOPA IN RATS |
| K-45-15 | KETTERING | UNKNOWN | | | | |
| K-48 | KETTERING | A. BACON<br>S. WITHERUP<br>H. SCHLEGHT<br>F. CLEVELAND<br>R. KEHOE | 4-9-52 | HB-40 HYDROGENATED TERPHENYL IN RABBITS + RATS | THE LUMINATIVE TOXICITY OF HB-40 IN RABBITS + RATS | MUTAGENICITY |
| K-49 + (K-55-49) | " | J. TREON<br>F. CLEVELAND<br>R. ATCHLEY | 7-5-55 | PYDRAUL F-9<br>H S-271 - [illegible] | THE TOXICITY OF A MIST GENERATED BY THE ASPIRATION OF PYDRAUL F-9 IN RATS, RABBITS + G. PIGS | MORTALITY OF ANIMALS EXP. PYDRAUL MIST SURVIVAL LGTH. |

| STUDY NO. | LABORATORY | AUTHOR | COMPLETION DATE | POLYCHLORINATED BIPHENYL PRODUCT | TITLE | DESCRIPTION |
|---|---|---|---|---|---|---|
| K-50 | KETTERING LAB | J. TREON, F. CLEVELAND J. CAPPEL, F. SCHAFFER R. ATCHLEY, J. TORBECK | 6-22-55 | AROCLORS 1242 & 1254 | THE TOXICITY OF THE VAPOR OF AROCLORS 1242 & 1254 IN CATS, G. PIGS, MICE, RABBITS + RATS | INHALATION EXPOSURE OF ANIMALS |
| K-54-050 | " " | J. TREON, F.C. CLEVELAND F. SCHAFFER, J. CAPPEL R. BOLLER, J. TORBECK | 6-28-55 | AROCLOR-1242 " 1254 | THE TOXICITY OF THE VAPOR OF AROCLORS 1242 + 1254 IN CATS, G. PIGS, MICE, RABBITS & RATS | INHALATION EXPOSURE OF ANIMALS |
| K-55-49 (SEE-K-49) SAME | " " | J. TREON F. CLEVELAND R. ATCHLEY | 7-5-55 | PYDRAUL F-9 HS-271 | THE TOXIRITY OF A MIST GENERATED BY THE ASPIRATION OF PYDRAUL F-9 IN RATS, RABBITS & G. PIGS | MORTALITY OF ANIMALS EXPERIENCING PYDRAUL MIST SURVIVAL LENGTH |
| LF-78-168 | MONSANTO INDUST. CHEM | L. FLOWERS | 7-12-78 | DIPHENYL OXIDE | FINAL REPORT ON SALMONELLA MUTAGENICITY ASSAY OF DIPHEAYL OXIDE | TOXICITY TO MICE & RATS |
| M-28 | YOUNGER | F. YOUNGER | 2-19-51 | PYDRAUL F-9 | THE MINIMUM LETHAL DOSE OF PYDRAUL F-9 WHEN FED ORALLY TO N. ZEALAND RABBITS | LETHAL DOSE ORALLY - RABBITS |
| M-28-2 | YOUNGER | F. YOUNGER | 4-17-51 | PYDRAUL F-9 | THE MINIMUM LETHAL DOSE OF PYDRAUL F-9 WHEN FED ORALLY TO LAB. RATS | LETHAL DOSE ORALLY - RATS |
| ML-78-393 | MONSANTO INDUST. CHEM | L. R. STARK | 2-8-79 | MCS-2046 HYDROGENATED (N.40™) SANTOWAX C | TOXICITY STUDIES ON MCS-2046 | ACUTE ORAL TOXICITY IN RATS |



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| STUDY NO. | LABORATORY | AUTHOR | COMPLETION DATE | POLYCHLORINATED BIPHENYL PRODUCT | TITLE | DESCRIPTION |
|---|---|---|---|---|---|---|
| MO-77-470-516 | MONSANTO INDUST. CHEM. CO. | V. SAEGER<br>O. HICKS<br>R. KALEY<br>J. MIEURE | 7-22-76 | SANTOWAY R - O, M, P - TERPHENYL MIX<br>30% HYDROGENATED TERPHENYL (SANTOSOL 300)<br>40% HYDROGENATED TERPHENYL (THER. 66 - SANTOSOL 340)<br>ISOPROPYLATED BIPHENYL (SANTOSOL 340)<br>EMULSIFIED BIPHENYL (MCS 1572)<br>MONOCHLORO BIPHENYL (MCS 1547)<br>ALKYLBENZENE STILL BOTTOMS (THERMINOL 55)<br>O, M, P, TERPHENYL (THERMINOL 88/MCS 1284)<br>POLYCHLORINATED TERPHENYL (AROCLOR 5432)<br>POLYCHLORINATED TERPHENYL (AROCLOR 5460 | BIODEGRADABILITY OF PROCESS FLUIDS & RELATED MATERIALS | ULTIMATE BIODEGRADATION<br>PRIMARY BIODEGRADATION |
| MO-77-552-595 | MONSANTO INDUST. CHEM. CO. | V. SAEGER<br>J. MIEURE | 7-29-76 | 21% CHLORINATED BIPHENYL (AROCLOR 1221)<br>30% CHLORINATED BIPHENYL (MCS-1043) (MCS-1414)<br>PENTA CHLORO DIPHENYL (MCS-1913)<br>AROCLORS: 1016, 1242, 1254 | BIODEGRADABILITY OF DIELECTRIC FLUIDS & COMPONENTS | ULTIMATE BIODEGRADATION<br>PRIMARY BIODEGRADATION |
| MO-77-596-616 | - SEE AC-75-55-59 | — SAME | | | | |

| STUDY NO | LAB | AUTHOR | COMP. DATE | PCB PROD. | TITLE | DESCRIPTION |
|---|---|---|---|---|---|---|
| MO-77-617 | MONSANTO INDUST. CHEMS. CO. | V.W. SAEGER E.S. TUCKER | JAN. 1975 | HALOWAX 1014 (CHLORINATED (60%) NAPHTHALENE | BIODEGRADATION TESTING OF HALOWAX 1014 | BIODEGRADATION |
| MO-77-625 | " " | V.W. SAEGER P.R. MICHAEL J.P. MIELKE | 6-8-77 | CEREClOR 42 SANTOSOL 340 HYDROGENATED TERPHENYL | PRIMARY BIODEGRADATION ULTIMATE " TESTING | BIODEGRADATION |
| MSL-2003 | MONSANTO INDUST CHEMS. CO | G.J. LEVINSKAS | 10-14-81 | PCBS & PCB DIBENZOFURANS AROCLORS | A REVIEW & EVALUATION OF CARCINOGENICITY STUDIES IN MICE & RATS & MUTAGENICITY STUDIES WITH PCB'S | CARCINOGENICITY & MUTAGENICITY |
| SH-72-4 | SHELANSKI HOLDING CO. | M. SHELANSKI | 4-18-72 | DIMETHYL PHTHALATE | EVALUATION OF POTENTIAL HAZARDS BY DERMAL CONTACT | REPEATED INSULT PATCH TEST. 50 INDIVIDUAL VOLUNTEERS |
| SH-72-10 | " " | " " | 8-16-72 | SANTOSOL 300-LOT AH-2 | " " " " " " | " " " " " " |
| SH-73-19 | " " | " " | 2-7-74 | MCS-1492-LOT MICL 225704 | " " " " " " | REPEATED INSULT PATCH TEST IN 56 INDIV. VOLUNTEERS " |

| STUDY NO | LAB | AUTHOR | comp. DATE | PCB PROD. | TITLE | DESCRIPTION[18] |
|---|---|---|---|---|---|---|
| SA-1 (SA-53-1 | SCIENTIFIC ASSO. | FRED YOUNGER | 9-4-53 | SANTOPOID 4 HALOWAX 1000 | THE CHLORAONE PROD. POTEN. OF SANTAPOID 4 HALOWAX 1000 | SKIN IRRIT, |
| SA-3 | SCIENTIFIC ASSO. | F. M. YOUNGER | 9-9-53 5-11-53 | AROCLOR 5460 | THE CHLORAONE PROD. POTENT. OF AROCLOR 5460 | SKIN IRRIT. |
| 142 SA-15 | " " | " " | 11-10-53 | AROCLOR 1254 | THE ACUTE ORAL TOXICITY $LD_{50}$ OF AROCLOR 1254 FOR RATS | " " |
| SA-19 (SA-53-19) | " " | " " | 12-11-53 | AROCLOR 1242* | DITTO ABOVE 1242 | ORAL LD50 |
| SA-20 | " " | " " | 1-13-54 | AROCLOR-1248 | THE ACUTE ORAL TOXICITY OF FUNCTIONAL FLUID 0354 RATS, INHALATION FUMES BY RABBITS | ORAL LD50 INHAL. STUDY EYE IRRIT. |
| SA-53-20 | " " | " " | 11-30-53 | OS-54 | THE ACUTE ORAL TOXICITY ($LD_{50}$) OF FUNC. FLUID OS-54 FOR RABBITS | INHALATION-3-DAY-OCULAR IRRIT. |
| SA-55-49 | " " | " " | 7-13-55 | PYDRAUL 600 | TOXICOLOGICAL INVESTIGATION PYDRAUL600 | 1-DAY RATS ACUTE ORAL TOXICITY ORAL LD-50 IN RATS |
| SA-55-49A | " " | " " | 9-26-55 | " " | " " " | " " " " " " |
| SA-53-90 (SA-90) | " " | " " | 2-1-55 | PYDRAUL-F-9 CFM-103) | TOXICOLOGICAL INVESTIG. OF PYDRAUL F. (FM-103) | ACUTE ORAL TOXIC. SKIN ABSORB. SKIN & EYE IRRIT. |
| | | | | | | |



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| STUDY NO. | LABORATORY | AUTHOR | COMPLETION DATE | POLYCHLORINATED BIPHENYL PRODUCT | TITLE | DESCRIPTION |
|---|---|---|---|---|---|---|
| SA-77 | SCIENTIFIC ASSO. | | 9-13-54 | FLUID 03-57 PYDRAUL 150 | THE TOXICOLOGICAL INVESTIGATION OF FLUID 03-57 - PYDRAUL-150 | ACUTE ORAL TOXICITY BY SKIN ABSORB., SKIN & OCULAR IRRIT., VAPOR INHALA. |
| SA-91<br>SA-55-91 | " " | F. M. YOUNGER | 2-3-55 | AROCLOR-1242 (03-63) ALBINO RATS | TOXICOLOGICAL INVESTIGATION OF FLUID 03-63 | ORAL $LD_{50}$ SKIN ABSORB, SKIN & EYE IRRIT. VAPOR INHALA. |
| W-45 | | | | | | |
| G. LEVINSKAS | | G. LEVINSKAS | 10-14-81 | AROCLORS, 1242, 1254, & 1260 | TOXICITY OF AROCLOR PRODUCTS 1242, 1254 & 1260 TO THE LIVER OF ALBINO RATS | TOXICITY STUDIES |
| G. LEVINSKAS | | G. LEVINSKAS | 10-14-81 | POLYCHLORINATED BIPHENYLS | A REVIEW OF CARCINOGENICITY STUDIES IN MICE & RATS, & MUTAGENICITY STUDIES WITH PCB's | REVIEW & EVALUATION |
| --- | MONSANTO | W. GAFFEY<br>F. MEYER<br>J. ZACK | (INCOMPLETE)<br>12-14-79 | VARIOUS (NEVER PUBLISHED AS FINAL REPORT) | MORTALITY OF PCB WORKERS AT MONSANTO PLANT IN SAUGET, ILL. | MORTALITY STUDY OF SOME PCB PRODUCTION WORKERS |
| --- | HARVARD MEDICAL SCHOOL | C. DRINKER | 1937<br>(9-15-38) | AROCLOR 1268 | REPORT TO MONSANTO CO. ON STUDIES TO DETERMINE TOXICITY OF CERTAIN SUBSTANCES | INHALATION STUDIES ON RATS |
| --- | BERNARD FREE SKIN & CANCER HOSPITAL | L. HALPERN | 1949 | AROCLOR 1254 | | HUMAN PATCH STUDY |
| --- | LITTON BIONETICS (REPORT TOO LARGE TO BE INCLUDED IN THIS FILE - SEE NEW REPORT | P. BERTEAU (SEE, ALSO GEN.'s SUB. FILE) | INCOMPLETE 4-30-81 LAST PAGE | AROCLOR 1254 | EFFECTS OF PCB ON THE REPRODUCTIVE PERFORMANCE OF THE RHESUS MONKEY (MACACA MULATTA) SEE LAST PAGE | REPRODUCTION STUDY IN RHESUS MONKEYS |

| STUDY NO. | LABORATORY | AUTHOR | COMPLETION DATE | POLYCHLORINATED BIPHENYL PRODUCT | TITLE | DESCRIPTION |
|---|---|---|---|---|---|---|
| Y-56-40 | YOUNGER | FRED YOUNGER | 8-3-56 | PYDRAUL AC (05-67) AROCLOR 50% | TOXICOLOGICAL INVESTIGATION OF PYDRAUL AC (05-67) | ORAL $LD_{50}$, SKIN IRRITATION LETHAL ORAL DOSE, EYE IRRIT SKIN ABSORB, VAPOR INHALATION |
| Y-57-1 | " | " " | 2-26-57 | PYDRAUL 625 (06-83) AROCLOR 1260 50%, PYDRAUL 625 (05-81) AROCLOR 1248 - 65.5% AROCLOR 1242 - 22.5% | TOXICOLOGICAL INVESTIGATION OF HYDRAUL FLUID 05-81 | ORAL $LD_{50}$, LETHAL DOSE SKIN & EYE IRRIT. VAPOR INHALATION |
| Y-57-3 & Y-57-003 | " | " " | 2-19-57 | SANTOWAY R-TER-PHENYLS MIXED ISOMERS | TOXICOLOGICAL INVESTIGATION OF SANTOWAX R | ACUTE ORAL TOXICITY SKIN IRRIT. SKIN ABSORB. |
| Y-57-22 | " | " " | 7-9-57 | AROCLOR 1270 | TOXICOLOGICAL INVESTIGATION OF AROCLOR 1270 AMMONIA REACTION PRODUCT | ORAL $LD_{50}$ - EYE AND SKIN IRAITATION |
| Y-58-4 | " | " " | 2-22-58 | PYDRAUL A-200 (05-95) | TOXICOLOGICAL INVESTIGATION OF 05-95 | ORAL $LD_{50}$ - SKIN ABSORB. SKIN & EYE IRRITATION VAPOR INHALATION |
| Y-58-29 | " | " " | 10-20-58 | PYDRAUL A-200 (05-95) | TOXICOLOGICAL INVESTIGATION OF 05-95 | SKIN ABSORBTION & IRRITATION |
| Y-58-31 | " | " " | 9-29-58 | PYDRAUL 625 | THE TOXICITY OF THE THERMAL DECOMPOSITION PRODUCT OF PYDRAUL 625 | MIST EXPOSURE (VARYING CONCENTARATION) |
| Y-58-46 | " | " " | 12-8-58 | PYDRAUL A-200 (05-95) | THE TOXICITY OF THE THERMAL DECOMPOSITION PRODUCT OF 05-95 | TOXICITY OF THERMAL DECOMPOSITION PRODUCTS |
| Y-60-49 | " | " " | 8-6-60 | SANTOLUBE 830 FORMULA MISSING | TOXICOLOGICAL INVESTIGATION OF CP-19949 SANTOLUBE 830 | ORAL $LD_{50}$ - SKIN ABSORB MLD SKIN & EYE IRRITATION VAPOR INHALATION |
| Y-61-34 | " | " " | 7-10-61 | STEROX AWS 101 | TOXICOLOGICAL INVESTIGATION OF STEROX AWS 101-THERMNOL FR-1 | ORAL MLD - ORAL $LD_{50}$ SKIN & EYE IRRITATION |
| Y-62-34 1+2+3 | " | " " | 6-19-62 | AROCLOR 1242 - SANTOLUBE 64 TRICHLOBE-PHENYL THERMINOL FR-1 | TOXICOLOGICAL INVESTIGATION OF AROCLOR 1242 | ORAL $LD_{50}$ SKIN ABSORB. MLD |
| Y-62-35 1+2+3 | " | " " | 6-19-62 | SANTOLUBE 65 - AROCLOR 1248 CHLORINATED BIPHENYL 48% | TOXICOLOGICAL INVESTIGATION OF AROCLOR 1248 | ORAL $LD_{50}$ - DERMAL $LD_{50}$ EYE SKIN IRRITATION |
| Y-62-36 1+2 | " | " " | 6-25-62 | AROCLOR 1254 CHLORINATED BIPHENYL 54% | TOXICOLOGICAL INVESTIGATION OF AROCLOR 1254 | ORAL $LD_{50}$ - SKIN ABSORB - MLD |
| Y-62-37 | " | " " | 6-25-62 | AROCLOR 1260 | TOXICOLOGICAL INVESTIGATION OF AROCLOR 1260 | ORAL $LD_{50}$ - DERMAL $LD_{50}$ |

| STUDY NO. | LABORATORY | AUTHOR | COMPLETION DATE | POLYCHLORINATED BIPHENYL PRODUCT | TITLE | DESCRIPTION |
|---|---|---|---|---|---|---|
| Y-62-38 | YOUNGER | F. YOUNGER | 6-25-62 | AROCLOR 1262 | TOXICOLOGICAL INVESTIGATION OF AROCLOR 1262 | ORAL $LD_{50}$ - DERMAL $LD_{50}$ |
| Y-62-41 1+2 | " | " " | 6-13-62 | AROCLOR 1221 | TOXICOLOGICAL INVESTIGATION OF AROCLOR 1221 | ORAL $LD_{50}$ - SKIN ABSORB. MLD |
| Y-62-42 | " | " " | 6-13-62 | AROCLOR 1268 | TOXICOLOGICAL INVESTIGATION OF AROCLOR 1268 | ORAL & DERMAL $LD_{50}$ |
| Y-62-43 | " | " " | 7-17-62 | AROCLOR 2565 | TOXICOLOGICAL INVESTIGATION OF AROCLOR 2565 | ORAL $LD_{50}$ - SKIN ABSORB. MLD MILD IRRITATION EFFECTS |
| Y-62-44 | " | " " | 7-3-62 | AROCLOR 4465 | TOXICOLOGICAL INVESTIGATION OF AROCLOR 4465 | ORAL $LD_{50}$ - SKIN ABSORB, SKIN & EYE IRRITATION |
| Y-62-45 (1) | " | " " | 7-5-62 | AROCLOR 5442 | TOXICOLOGICAL INVESTIGATION OF AROCLOR 5442 | ORAL $LD_{50}$ - SKIN ABSORB, |
| Y-62-45 (2) | " | " " | 7-13-62 | 60% CHLORINATED TERPH. (SAME AS AROCLOR 5460) | TOXICOLOGICAL INVESTIGATION OF 60% CHLORINATED TERPHENYL | ORAL $LD_{50}$ - SKIN ABSORB |
| Y-62-46 | " | " " | 7-13-62 | 60% CHLORINATED TERPH. (SAME AS AROCLOR 5460) | TOXICOLOGICAL INVESTIGATION OF 60% CHLORINATED TERPHENYL | REDUCED APPETITE - ORAL $LD_{50}$ MODERATE LETHARGY |
| Y-62-48 | " | " " | 5-1-62 | BENZAL SD (AROCLOR 5442) HALOGENATED TERPHENYL | TOXICOLOGICAL INVESTIGATION OF BENZAL SD | ORAL $LD_{50}$ - SKIN ABSORB, SKIN & EYE IRRITATION |
| Y-62-52 1+2 | " (Y-62-53 - NEXT PAGE) | " " | 6-6-62 | AROCLOR 1232 (CHLOR. BIPHENYL 32%) SANTOLUBE 63 | TOXICOLOGICAL INVESTIGATION OF AROCLOR 1232 | ORAL & DERMAL $LD_{50}$ |
| Y-62-94 | " | " " | 10-29-62 | MCS-177 (THERMINOL 77) | TOXICOLOGICAL INVESTIGATION OF MCS 177 | ORAL $LD_{50}$ APPROX. ORAL $LD_{50}$ |
| Y-63-11 1+2 | " | " " | 3-4-63 | PYRANOL 1470 AROCLOR 1260 60% | TOXICOLOGICAL INVESTIGATION OF PYRANOL 1470 | ORAL $LD_{50}$ - SKIN ABSORB MLD " IRRITAT. VAPOR INHALA |
| Y-63-12 1+2 | " | " " | 3-4-63 | INERTEEN PPO (WESTING-HOUSE) AROCLOR 1260 - 60% | TOXICOLOGICAL INVESTIGATION INERTEEN PPO | ORAL $LD_{50}$ SKIN ABSORB. MLD |
| Y-63-21 | " | " " | 4-29-63 | MCS-198 | TOXICOLOGICAL INVESTIGATION MCS 198 | ORAL $LD_{50}$ - SKIN ABSORB. MLD SKIN & EYE IRRITAT. VAPOR INHALATION |
| Y-63-61 | " | " " | 12-19-63 | THERMINOL 77 MCS177 | TOXICOLOGICAL INVESTIGATION OF THERMINOL 77 | ORAL $LD_{50}$ - SKIN ABSORB, MLD SKIN & EYE IRRITAT - RM. TEMP. 76F VAPOR INHALATION - RM. TEMP. 150F |
| Y-63-88 1+2 | " | " " | 12-19-63 | MCS-300 AROCLOR 1242 - 74.8% " 1221 - 12.4% | TOXICOLOGICAL INVESTIGATION OF MCS-300 | ORAL $LD_{50}$ - SKIN ABSORB. MLD SKIN & EYE IRRITAT, VAPOR INHALATION |



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| STUDY NO. | LABORATORY | AUTHOR | COMPLETION DATE | POLYCHLORINATED BIPHENYL PRODUCT | TITLE | DESCRIPTION |
|---|---|---|---|---|---|---|
| Y-64-7 AND Y-64-7A | YOUNGER | F. YOUNGER | 2-13-64<br>2-13-64 | FH-145<br>FH-159 - AROCLOR 1232 66% DIBROMOETHYL BENZENE 34% | TOXICOLOGICAL INVESTIGATION OF FH-145<br>TOXICOLOGICAL INVESTIGATION OF FH-159 - AROCLOR 1232 | ORAL $LD_{50}$ - SKIN ABSORB. MLD<br>ORAL MLD - VAPOR INHALA.<br>SKIN & EYE IRRITAT. |
| Y-64-49 (1) | " | " " | 6-13-64 | THERMINOL FRD-MCS-295 | TOXICOLOGICAL INVESTIGATION OF MCS-295 | ORAL $LD_{50}$ - SKIN ABSORB. |
| Y-64-49 (2) | " | " " | " " " | MCS295 - HALOGENATED BIPHENYL | TOXICOLOGICAL INVESTIGATION OF MCS-295 HALOG. BIPHENYL | SKIN & EYE IRRITAT. |
| Y-64-74 | " | " " | 7-6-64 | SKYDROL 500 A | TOXIC. INVESTIGATION OF SKYDROL 500 A | SKIN IRRITATION |
| Y-64-77 | " | " " | 7-20-64 | FH-159<br>AROCLOR 1232 - 35% | TOXICOLOGICAL INVESTIGATION OF FH-159 - AROCLOR 1232 | ORAL $LD_{50}$ - SKIN ABSORB.<br>SKIN & EYE IRRITAT.<br>VAPOR INHALATION |
| Y-64-91 | " | " " | 8-11-64 | PYDRAUL 280 - A-200 55%<br>A-625 - 45% | TOXIC. INVESTIGATION OF PYDRAUL 280 | ORAL $LD_{50}$ - SKIN ABSORB MLD,<br>EYE IRRITAT - VAPOR INHALATION |
| Y-64-133 | " | " " | 11-12-64 | PYDRAUL 312<br>AROCLOR 1242 - 45.4% | TOXIC. INVESTIGATION OF MCS-312 | ORAL $LD_{50}$ - SKIN ABSORB. MLD,<br>EYE IRRITAT. - VAPOR INHALA. |
| Y-65-153 | " | " " | 10-11-65 | HIBOILER H290<br>(THERMINOL 55 - BEFORE 1967) | TOXIC. INVESTIGATION OF HIBOILER H290 | ACUTE ORAL TOXICITY - SKIN ABS. MLD,<br>SKIN & EYE IRRITAT - VAPOR INHALA. |
| Y-65-213 | " | " " | 1-10-66 | PYDRAUL 135<br>AROCLOR 1242 - 42.7% | TOXIC. INVESTIGATION OF MCS-395 | ORAL $LD_{50}$ - ORAL MLD,<br>SKIN ABSORB, SKIN & EYE IRRITAT,<br>VAPOR INHALATION |
| Y-65-214 1 & 2 | " | " " | 1-12-66 | PYDRAUL 312 - HIGH VISCOSITY - AROCLOR 1248 - 43.7%<br>AROCLOR - 1254 - 10.0% | TOXIC. INVESTIGATION OF MCS-404 | ORAL $LD_{50}$ - ORAL MLD,<br>SKIN ABSORB. - SKIN & EYE IRRITAT,<br>VAPOR INHALATION |
| Y-66-151 1 & 2 | " | " " | 10-17-66 | AROCLOR - 1242 - 37.7%<br>AROCLOR - 1232 - 6% MCS-90 | TOXIC. INVESTIGATION OF MCS-90 | ORAL $LD_{50}$ - SKIN ABSORB,<br>SKIN & EYE IRRITAT. - VAPOR INHALA, |
| Y-66-158 | " | " " | 11-9-66 | PYDRAUL AC | TOXIC. INVEST. OF PYDRAUL AC | ORAL $LD_{50}$ - SKIN ABSORB. MLD. |
| Y-66-159 | " | " " | 11-9-66 | PYDRAUL F-9 | TOXIC. INVEST. OF PYDRAUL F-9 | ORAL $LD_{50}$ - SKIN ABSORB MLD, |
| Y-66-160 | " | " " | 11-9-66 | PYDRAUL - 135<br>AROCLOR 1242 - 42.7% | TOXIC, INVEST. OF PYDRAUL 135 | ORAL $LD_{50}$ - SKIN ABSORB. MLD, |
| Y-66-161 | " | " " | 11-9-66 | PYDRAUL - 280<br>PYDRAUL - A-200 - 55%<br>PYDRAUL - 625 - 45% | TOXIC. INVEST. OF PYDRAUL 280 | ORAL $LD_{50}$ - SKIN ABSORB. MLD |
| Y-62-53 | " | " " | 7-17-62 | AROCLOR 2565 | TOXIC. INVEST. OF AROCLOR 2565 | ORAL $LD_{50}$ - SKIN ABSORB MLD<br>MILD IRRITATION OF EFFECTS |



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| STUDY NO. | LABORATORY | AUTHOR | COMPLETION DATE | POLYCHLORINATED BIPHENYL PRODUCT | TITLE | DESCRIPTION |
|---|---|---|---|---|---|---|
| Y-66-162 | YOUNGER | F. YOUNGER | 11-9-66 | PYDRAUL 625(OS-83) AROCLOR 1260 - 50% | TOXICOLOGICAL INVESTIGATION OF PYDRAUL 625 | ORAL $LD_{50}$ - SKIN ABSORB. MLD, |
| Y-66-163 | " | " " | 11-9-66 | MCS 153 - TURBINOL 153 AROCLOR 1242 - 25.35% AROCLOR 1232 - 12.85% | TOXIC. INVESTIGATION OF MCS-153 | ORAL $LD_{50}$ - SKIN ABSORB. MLD. |
| Y-66-164 1 & 2 | " | " " | 11-9-66 | MCS-404 - PYDRAUL 312 HIGH VISCOSITY - AROCLOR - 1248 - 43.7% AROCLOR 1254 - 100% | TOXIC. INVESTIGATION OF MCS-404 | ORAL $LD_{50}$ - SKIN ABSORB. MLD, |
| Y-67-100 | " | " " | 10-13-67 | PYDRAUL 230 AROCLOR - 1242 - 55.60% | TOXIC. INVESTIGATION OF PYDRAUL 230 | ORAL $LD_{50}$ - SKIN ABSORB, SKIN & EYE IRRITAT. |
| Y-67-105 1 & 2 | " | " " | 10-19-67 | (XA-140) SANTICIZER 1706 AROCLOR 1240 - 20% | TOXIC. INVESTIGATION OF XA-140 SANTICIZER 1706 | ORAL $LD_{50}$ |
| Y-68-64 | " | " " | 5-27-68 | AROCLOR 5460 | TOXIC - INVESTIGATION OF AROCLOR 5460 | VAPOR INHALATION |
| Y-68-65 | " | " " | 6-6-68 | MCS-460 | TOXIC. INVESTIGATION OF MCS-460 | ACUTE ORAL TOXICITY RANGE SKIN ABSORB. MLD, |
| Y-68-87 | " | " " | 8-8-68 | AROCLOR 5460 - 38.5% | TOXIC. INVESTIGATION OF AROCLOR 5460 | ORAL $LD_{50}$ - SKIN ABSORB, SKIN & EYE IRRITAT, |
| Y-68-127 ① | " | MELVIN BIRCH | 1-13-69 | AROCLOR 1248 CHX 604 | TOXIC. INVESTIGATION OF CHX 604 | ORAL $LD_{50}$ - DERMAL $LD_{50}$ SKIN & EYE IRRITAT. |
| Y-68-127 ② | " | F. YOUNGER | | SANTOLUBE 65 - AROCLOR 1248 THERMINOL FR-2 - CHLORIN. BIPHENYL 48% | | ORAL $LD_{50}$ - SKIN ABSORB. MLD - SKIN & EYE IRRITAT |
| Y-68-133 | " | M. BIRCH | 1-22-69 | FLOURINATED AROCLOR 1254 (HALOGENATED BIPHENYL) | TOXIC. INVESTIGATION OF FLOURINATED AROCLOR 1254 | ORAL $LD_{50}$ - SKIN ABSORB. MLD SKIN & EYE IRRIT. |
| Y-69-135 | " | M. BIRCH | 1-22-69 | PYDRAUL 312 (MCS-312) (OR-116021) AROCLOR 1242 45.4% | TOXIC. INVESTIGATION OF PYDRAUL 312 (MCS-312) | ORAL $LD_{50}$ - SKIN ABSORB. MLD SKIN & EYE IRRITAT. |
| Y-69-41 1 & 2 | " | " " | 5-5-69 | MCS 900 AROCLOR 1242 - 30% | TOXIC. INVESTIGATION OF MCS 900 | ORAL $LD_{50}$ - SKIN ABSORB. MLD SKIN & EYE IRRITAT. - VAPOR INHALA; |
| Y-69-42 1 & 2 | " | " " | 5-5-69 | FUNCTIONAL FLUID FORMULATION AROCLOR 1242 40% | TOXIC. INVESTIGATION OF FUNCTIONAL FLUID FORMULATION | ORAL $LD_{50}$ - SKIN ABSORB. MLD SKIN & EYE IRRITAT, VAPOR INHALATION |

| STUDY NO. | LABORATORY | AUTHOR | COMPLETION DATE | POLYCHLORINATED BIPHENYL PRODUCT | TITLE | DESCRIPTION |
|---|---|---|---|---|---|---|
| Y-69-50 | YOUNGER LAB | M. BIRCH | 5-28-69 | SANTICIZER 630 - LOT EL 9007 - HB 40 33% | TOXIC. INVESTIGATION OF SANTICIZER 630 - LOT EL 9007 | RANGE FINDING ACUTE ORAL TOXICITY. SKIN ABSORB - MLD. SKIN & EYE IRRIT |
| Y-69-53 | " | " | 7-7-69 | FLORINATED AROCLOR 1254 (OR 16827) | TOXIC. INVESTIGATION OF FLORINATED AROCLOR 1254 (OR 16827) | ORAL $LD_{50}$ - SKIN ABSORB. MLD SKIN & EYE IRRITATION VAPOR INHALATION |
| Y-69-54 | " | " | 6-30-69 | BROMINATED AROCLOR 1221 (OR 16832) | TOXIC. INVESTIGATION OF BROMINATED AROCLOR 1221 | ORAL $LD_{50}$ - SKIN ABSORB, SKIN & EYE IRRITAT, |
| Y-69-57 | " | " | 7-18-69 | MCS-9001 (THERMINOL - FR-LO TEMP.) | TOXIC. INVESTIGATION OF MCS-9001 | ORAL $LD_{50}$ - SKIN ABSORB. MLD SKIN & EYE IRRIT. - VAPOR INHALA. |
| Y-69-148 | " | " | 1-6-70 | PYDRAUL AC-A WINTERGRADE 28 AROCLOR 5442 - 24% | TOXIC. INVESTIGATION OF PYDRAUL AC-A-WNTR. GRD. 28 | ORAL $LD_{50}$ - SKIN ABSORB. MLD, SKIN & EYE IRRIT. - VAPOR INHALA |
| Y-69-149 | " | " | 1-16-70 | MCS-976 - PYDRAUL AC-A AROCLOR 5442 - 43.5% | TOXICOLOGICAL INVESTIGATION OF MCS-976 - PYDRAUL AC-A | ORAL $LD_{50}$ - SKIN ABSORB MLD, SKIN & EYE IRRIT. - VAPOR INHALA. |
| Y-69-150 | " | " | 1-16-70 | MCS-975 - PYDRAUL 625-A AROCLOR 5442 - 31.5% | TOXIC. INVESTIGATION OF MCS-975 - PYDRAUL 625-A | ORAL $LD_{50}$ - SKIN ABSORB. MLD SKIN & EYE IRRIT. - VAPOR INHALA, |
| Y-70-1 | " | " | 2-4-70 | AROCLOR 5480 | TOXIC. INVESTIGATION OF MCS-975 - PYDRAUL 625-A | ORAL $LD_{50}$ - SKIN ABSORB, SKIN & EYE IRRIT. |
| Y-70-25 | " | " | 3-27-70 | PYDRAUL 281 - LOT QL-42 | TOXIC. INVESTIGATION OF PYDRAUL 281 - LOT QL-42 | ORAL $LD_{50}$ - SKIN ABSORB. MLD. SKIN & EYE IRRIT. - VAPOR INHALA. |
| Y-70-43 | " | " | 5-25-70 | MCS-1009 | TOXIC. INVESTIGATION OF MCS-1009 | ORAL $LD_{50}$ - SKIN ABSORB. MLD. SKIN & EYE IRRIT. - VAPOR INHALA, |
| Y-70-44 | " | " | 5-25-70 | MCS-1007 AROCLOR 5432 - 42.5% | TOXIC. INVESTIGATION OF MCS-1007 | ACUTE ORAL TOXICITY SKIN ABSORB. MLD. VAPOR INHALA. SKIN & EYE IRRIT. |
| Y-70-45 | " | " | 5-25-70 | MCS-999 | TOXIC. INVESTIGATION OF MCS-999 | ORAL $LD_{50}$ - SKIN ABSORB. MLD SKIN & EYE IRRIT. - VAPOR INHALA, |
| Y-70-74 | " | " | 8-17-70 | AROCLOR - 6062 | TOXIC. AROCLOR 6062 LOT QM-1804 (INVESTIGATION) | ORAL $LD_{50}$ - SKIN ABSORB. SKIN & EYE IRRITATION |

| STUDY NO. | LABORATORY | AUTHOR | COMPLETION DATE | POLYCHLORINATED BIPHENYL PRODUCT | TITLE | DESCRIPTION |
|---|---|---|---|---|---|---|
| Y-70-86 | YOUNGER LAB. | M. BIRCH | 9-8-70 | MES-974 PATCH 6-1 AROCLOR 1242 - 61% | TOXICOLOGICAL INVESTIGATION OF MES-974 - PATCH 6-1 | ORAL $LD_{50}$ - SKIN ABSORB. SKIN & EYE IRRIT. - VAPOR INHALA. |
| Y-70-87 | " " | " " | 9-14-70 | MES-1007 - PYDRAUL 9A (AMENDMENT 1) AROCLOR 5432 42.3% | TOXIC. INVESTIGATION OF PYDRAUL 9A (AMENDMENT I) | ORAL $LD_{50}$ - SKIN ABSORB. SKIN + EYE - IRRIT. - VAPOR INHALA |
| Y-70-114 | " " | " " | 12-2-70 | AROCLOR 6091 | TOXIC. INVESTIGATION OF AROCLOR 6091 - MES-1057-1 | ORAL $LD_{50}$ - SKIN ABSORB. SKIN + EYE IRRIT. - VAPOR INHALA. |
| Y-70-116 | " " | " " | 12-14-70 | AROCLOR 4279 | TOXIC. INVESTIGATION OF MES-1004 - AROCLOR 4279 LOT # OR 151783-3 | ORAL $LD_{50}$ - SKIN ABSORB. SKIN + EYE IRRIT. - VAPOR INHALA. |
| Y-70-123 | " " | " " | 12-30-70 | AROCLOR 6040 | TOXIC. INVESTIGATION OF AROCLOR 6040 (CHLORINATED POLYPHENYL) | ORAL $LD_{50}$ - SKIN ABSORB SKIN + EYE IRRIT. - VAPOR INHALA. |
| Y-70-124 | " " | " " | 12-30-70 | AROCLOR 6050 (CHLORINATED POLYPHENYL) | TOXIC. INVESTIGATION OF AROCLOR 6040 (CHLORINATED POLYPHENYL) | ORAL $LD_{50}$ - SKIN ABSORB. SKIN + EYE IRRIT. - VAPOR INHALA. |
| Y-70-125 | " " | " " | 12-30-70 | AROCLOR 6070 (CHLORINATED POLYPHENYL) | TOXIC. INVESTIGATION OF AROCLOR (CHLORINATED POLY PHENYL) | ORAL $LD_{50}$ - SKIN ABSORB, |
| Y-70-126 | " " | " " | 12-30-70 | AROCLOR 6090 | TOXIC. INVESTIGATION OF AROCLOR 6090 (CHLORINATED POLYPHENYL) | ORAL TOXICITY - SKIN ABSORB, SKIN + EYE IRRIT. |
| Y-71-14 | " " | " " | 2-14-71 | AROCLOR 0114 | TOXIC. INVESTIGATION OF AROCLOR 0114 (10-16-70) | ORAL $LD_{50}$ - ACUTE SKIN ABSORB, SKIN + EYE IRRIT. |
| Y-71-29 | " " | " " | 2-25-71 | WEM - LOT AA-3 HYDROGENATED QUATRAPHENYL | TOXIC. INVESTIGATION OF WEM - LOT AA-3 HYDROGENATED QUATRAPHENYL | ACUTE ORAL MINIMAL LETHAL DOSE - ACUTE SKIN ABSORB. MLD, SKIN + EYE IRRIT. |
| Y-71-37 | " " | " " | 3-17-71 | PYDRAUL 150A LOT OR-162439 | TOXIC. INVESTIGATION OF PYDRAUL 150A - LOT OR-162439 | ORAL $LD_{50}$ - ACUTE SKIN ABSORB, SKIN + EYE IRRIT. - VAPOR INHALA. |
| Y-71-38 | " " | " " | 3-17-71 | PYDRAUL 312A - LOT-OR 162437 - AROCLOR 5432 - 91% | TOXIC. INVESTIGATION OF PYDRAUL 312 A-LOT OR-162439 | ORAL $LD_{50}$ - ACUTE SKIN ABSORB, MINIMAL LETHAL DOSE SKIN + EYE IRRIT. |
| Y-71-39 | " " | " " | 3-17-71 | PYDRAUL 540B - LOT OR-162446 - AROCLOR 5432 - 42% | TOXIC. INVESTIGATION OF PYDRAUL 540B - LOT-OR-162446 | ORAL $LD_{50}$ - ACUTE SKIN ABSORB, MINIMAL LETHAL DOSE SKIN + EYE IRRIT. |

| STUDY NO. | LABORATORY | AUTHOR | COMPLETION DATE | POLYCHLORINATED BIPHENYL PRODUCT | TITLE | DESCRIPTION |
|---|---|---|---|---|---|---|
| Y-71-40 | YOUNGER | M. BIRCH | 3-17-71 | MCS 1083 - LOT OR-162444 AROCLOR 5432 - 29% | TOXIC. INVESTIGATION OF MCS-1083-LOT-OR-162444 | ORAL $LD_{50}$ - ACUTE SKIN ABSORB, MINIMAL LETHAL DOSE SKIN & EYE IRRIT. - VAPOR INHALA, |
| Y-71-41 | " | " " | 3-17-71 | PYDRAUL 135A - LOT OR 162445 - AROCLOR 5432 - 27.6% | TOXIC. INVESTIGATION OF PYDRAUL 135A - LOT OR 162445 | ORAL $LD_{50}$ - ACUTE SKIN ABSORB, MINIMAL LETHAL DOSE SKIN & EYE IRRIT. - VAPOR INHALA, |
| Y-71-57 | " | " " | 3-31-71 | AROCLOR 5468 - LOT 164487-B | TOXIC. INVESTIGATION OF AROCLOR 5468 - LOT - 164487-B | ORAL DOSAGE - SKIN ABSORB. SKIN & EYE IRRIT. |
| Y-71-88 | " | " " | 5-21-71 | HB-30, XS-362 LOT OR-167882 | TOXIC. INVESTIGATION OF HB-30, X S-362 | ORAL $LD_{50}$ - ACUTE SKIN ABSORB, MINIMAL LETHAL DOSE SKIN & EYE IRRIT, |
| Y-71-105 | " | " " | 6-28-71 | AROCLOR 1272 | TOXIC. INVESTIGATION OF AROCLOR 1272-LOT-OR-179021 | ORAL $LD_{50}$ - DERMAL $LD_{50}$ EYE & SKIN IRRIT. |
| Y-71-187 | " | " " | 1-12-72 | AROCLOR 1016 - 44% (GERMAN MINE FLUID) | TOXIC. INVESTIGATION OF AROCLOR 1016 - 44% (GERMAN MINE FLUID) LOT OR - 162483 | ORAL LETHAL DOSE - SKIN ABSORB, SKIN & EYE IRRIT. VAPOR INHALA, |
| Y-71-189 | " | " " | 1-12-72 | AROCLOR 1016 - 43% | TOXIC. INVESTIGATION OF MCS-1228 - GERMAN MINE FLUID LOT-OR 162483 | ORAL $LD_{50}$ - SKIN ABSORB, SKIN & EYE IRRIT, |
| Y-72-43 | " | " " | 3-8-72 | THERMINOL 44 - LOT-QET-179075 - THERMINOL 55 - 9.5% | TOXIC. INVESTIGATION OF THERMINOL 44 - LOT - QET-179075 | ORAL $LD_{50}$ - ACUTE SKIN ABSORB, MINIMAL LETHAL DOSE |
| Y-72-88 | " | " " | 5-4-72 | TRIPHENYL PHOSPHATE KB-01-3 | TOXIC. INVESTIGATION OF TRIPHENYL PHOSPHATE KB-01-3 | ORAL $LD_{50}$ - ACUTE SKIN ABSORB, MINIMAL LETHAL DOSE - SKIN & EYE IRAIT. |
| Y-72-145 | " | " " | 8-3-72 | THERMINOL 77 (USED) FROM TRW SYSTEMS - TSR 43/72 BISPHENOXY BIPHENYL | THERMINOL 77 USED (TOX. INVEST. OF) FROM TRW SYSTEMS - TSR-43/72 | ACUTE ORAL - MINIMUM LETHAL DOSE - ACUTE SKIN ABSORB, SKIN & EYE IRRIT. |
| Y-72-146 | " | " " | 8-3-72 | FLUIDICS ALKYLATE LOT TSR 35/72 | FLUIDICS ALKYLATE LOT TSR - 35/72 (TOXIC. INVESTIGATION OF) | ACUTE ORAL - MINIMAL LETHAL DOSE - ACUTE SKIN ABSORB SKIN & EYE IRRIT. |
| Y-72-244 | " | " " | 9-2-72 | MCS-1330 - LOT-OR-198850-6 - HYDROGENATED QUATERPHENYL 40% MCS-1248 - 3% | TOXIC. INVESTIGATION OF MCS-1330 | ACUTE ORAL - MINIMAL LETHAL DOSE. ACUTE SKIN ABSORB, SKIN & EYE IRRIT. |

| STUDY NO. | LABORATORY | AUTHOR | COMPLETION DATE | POLYCHLORINATED BIPHENYL PRODUCT | TITLE | DESCRIPTION |
|---|---|---|---|---|---|---|
| Y-72-249 | YOUNGER | M. BIRCH | 10-2-72 | THERMINOL 66 LOT - AB10 | TOXIC. INVESTIGATION OF THERMINOL 66 - LOT AB10 | VAPOR INHALANT |
| Y-73-14 | " | " " | 2-14-73 | MCS-1442 - LOT OR 198737 | TOXIC. INVESTIGATION OF MCS- 1442-LOT OR-198737 | ACUTE ORAL SINGLE - MINIMAL LETHAL DOSE - ACUTE SKIN ABSORB, SKIN & EYE IRRIT.-VAPOR INHALA. |
| Y-73-86 | " | " " | 5-31-73 | MCS- 1432-LOT NBP 198756 | TOXIC. INVESTIGATION OF MCS-1432-LOT NBP-198756 | ACUTE SINGLE ORAL MINIMUM LETHAL DOSE - ACUTE SKIN ABSORB, SKIN & EYE IRRIT.- VAPOR INHALA, |
| Y-73-130 | " | " " | 9-4-73 | MCS- 1572 LOT NBP -227465 | TOXIC. INVESTIGATION OF MCS-1572-LOT NBP-227465 | ORAL $LD_{50}$ - ACUTE SKIN ABSORB, SKIN & EYE IRRIT.- VAPOR INHALA. |
| Y-73-158 #1 | " | " " | 9-17-73 | MCS- 1489 | TOXIC. INVESTIGATION OF MCS-1484 (RC) MIC 291499 | ORAL $LD_{50}$ - ACUTE SKIN ABSORB, SKIN & EYE IRRIT.- VAPOR INHALA. |
| Y-73-158 #2 | " | " " | 1-30-74 | SANTOWAX Q | TOXIC. INVESTIGATION OF SANTOWAX Q | ACUTE ORAL TOXICITY ACUTE DERMAL TOXICITY, ACUTE EYE IRRIT. PRIMARY SKIN IRRIT, |
| Y-73-285 | " | " " | 1-17-74 | MCS-1039 BIPHENYL 26.5% | TOXIC. INVESTIGATION OF MCS-1039 | ACUTE ORAL TOXICITY ACUTE DERMAL TOXICITY - ACUTE EYE IRRIT, PRIMARY SKIN IRRIT, INHALATION TOXICITY |
| (SPECIAL) Y-74-6 | " | " " | 6-13-74 | MCBP, MCS 1043 MCS-1489 - AROCLOR 1016 90% - AROCLOR 1242-TXS-10% | SPECIAL STUDY OF MCBP MCS-1043- MCS-1489 AROCLOR 1016-AROCLOR 1242 | ANIMAL FEEDING STUDY |
| Y-74-27 | " | " " | 3-27-74 | MCS- 1612 | TOXIC. INVESTIGATION OF MCS- 1612 | ACUTE ORAL TOXICITY ACUTE DERMAL " ACUTE EYE IRRIT. PRIMARY SKIN IRRIT. INHALATION TOX. |
| Y-74-45 | | M. BIRCH | 1974 | | ANIMAL FEEDING STUDIES FOR TISSUE RESIDUE ANALYSES | TISSUE RESIDUE STUDY |
| Y-74-46 | YOUNGER | M. BIRCH | 2-25-74 | MCS-1633 | ANIMAL FEEDING STUDIES FOR TISSUE RESIDUE ANALYSES | DF TISSUE RESIDUE STUDIES |
| Y-74-47 | " | " " | 2-28-74 | MCS-1623 | | |
| Y-74-48 | " | " " | 3-5-74 | MCS- 1238 | | |
| Y-74-49 | " | " " | 3-15-74 | MCS- 1475 | | |
| Y-74-50 | " | " " | 3-25-74 | MCS- 1302 | | |
| Y-74-51 | " | " " | 3-27-74 | MCBP | | |
| Y-74-52 | " | " " | 2-1-74 & 3-30-74 | MCS-1043 | | |
| Y-74-53 | " | " " | 4-9-74 | MCS-1489 | | |
| Y-74-54 | " | " " | 5-9-74 | AROCLOR 1016 | | |
| Y-74-55 | " | " " | 6-8-74 & 2-9-74 | AROCLOR-1016 AROCLOR-1242 | | |



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| STUDY NO. | LABORATORY | AUTHOR | COMPLETION DATE | POLYCHLORINATED BIPHENYL PRODUCT | TITLE | DESCRIPTION |
|---|---|---|---|---|---|---|
| Y-74-98 | YOUNGER | M. BIRCHER | 5-21-74 | MCS-1624 | TOXICOLOGICAL INVESTIGATION OF MCS-1624 | ACUTE ORAL TOXICITY<br>ACUTE DERMAL "<br>ACUTE EYE IRRIT.-PRIMARY SKIN IRRIT. - INHALATION TOXICITY |
| Y-75-252 | " | " " | 10-22-74 | AROCLOR 1016 | TOXIC. INVESTIGATION OF AROCLOR 1016 - LOT-KE-01-701 | ORAL $LD_{50}$ - DERMAL $LD_{50}$<br>SKIN & EYE IRRIT. |
| Y-76-328 | " | " " | 9-30-76 | SANTOVAC-6 | TOXIC. INVESTIGATION OF SANTOVAC-6 | ACUTE ORAL & DERMAL TOXICITY<br>EYE IRRIT. - PRIMARY SKIN IRRIT. |
| Y-76-354 | " | " " | 11-5-76 | LIGHT HI BOILER (TANK T512-2) | TOXIC. INVESTIGATION OF LIGHT HI BOILER | ACUTE ORAL & DERMAL TOXICITY<br>EYE IRRIT. - PRIMARY SKIN IRRIT. |
| Y-77-72 | " | " " | 4-27-77 | DIPHENYL OXIDE | TOXIC. INVESTIGATION OF DIPHENYL OXIDE | ACUTE ORAL & DERMAL TOXICITY<br>EYE IRRIT. - PRIMARY SKIN IRRIT. |
| Y-77-123 | " | " " | 6-15-77 | COOLANOL 15 | TOXIC. INVESTIGATION OF COOLANOL 15 | ACUTE ORAL & DERMAL TOXICITY<br>EYE IRRIT. - PRIMARY SKIN IRRIT. |
| Y-79-67 | " | " " | 5-30-79 | SANTICIZER 558<br>LOT - RHM - 1282588 | TOXIC. INVESTIGATION OF SANTICIZER 558 | ORAL $LD_{50}$ - DERMAL MLD<br>SKIN & EYE IRRIT. - VAPOR INHALA. |
| MDA-041<br>- REPLACES HL-72-145 & | DAYTON - MONSANTO | B. J. WARNER<br>D. J. DAHM | 2-25-83 | AROCLOR 1254 | PCB CONTENT OF MONKEY TISSUE REPORT | FEEDING STUDY OF 48 RHESUS MONKEYS |

# YOUNGER LABORATORIES THERMINOL STUDIES

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| Y-57-3 | Younger Laboratory | ? | 2/13/57 | Santowax R terphenyls, mixed isomers | Acute Oral Toxicity<br>Skin Irritation<br>Eye Irritation<br>Skin Absorption |
| Y-62-34 | Younger Laboratory | Fred Younger | 6/19/62 | Aroclor 1242 trichlorobiphenyl | Oral LD-50<br>Skin Absorption MLD |
| Y-62-35 | Younger Laboratory | Fred Younger | 6/19/62 | Aroclor 1248 Chlorinated biphenyl 48%* | Oral LD-50<br>Skin Absorption MLD |
| Y-62-36 | Younger Laboratory | Fred Younger | 6/25/62 | Aroclor 1254 chlorinated biphenyl 54%* | Oral LD-50<br>Skin Absorption MLD |
| Y-62-41 | Younger Laboratory | ? | 6/13/62 | Aroclor 1221 | Oral LD-50<br>Skin Absorption MLD |
| Y-62-52 | Younger Laboratory | Fred Younger | 6/6/62 | Aroclor 1232 | Oral LD-50<br>Skin Absorption |
| Y-62-94 | Younger Laboratory | Fred Younger | 10/29/62 | MCS 177 (therminol 77) | Oral LD-50<br>Approximate Oral LD-50 |
| Y-63-61 | Younger Laboratory | Fred Younger | 9/4/63 | Therminol 77 (MCS 177) | Oral LD-50<br>Skin Absorption MLD<br>Skin Irritation<br>Eye Irritation<br>Vapor Inhalation Room Temp. 76°<br>Vapor Inhalation 150°F |

* Percents shown for blends.



PCB-ARCH-EXT0379414

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| Y-64-49 | Younger Laboratory | Fred Younger | 6/13/64 | MCS 295 halogenated biphenyl | Oral LD-50<br>Skin Absorption MLD<br>Skin Irritation<br>Eye Irritation<br>Vapor Inhalation |
| Y-65-153 | Younger Laboratory | Fred Younger | 10/11/65 | HIBOILER H230 (Therminol 55 before 1967) | Range Finding Acute Oral Toxicity<br>Skin Absorption MLD<br>Skin Irritation<br>Eye Irritation<br>Vapor Inhalation |
| Y-67-105 | Younger Laboratory | Fred Younger | 10/19/67 | (XA-140) Santicizer 1706 Aroclor 1242 20%* | Oral LD-50 |
| Y-68-127 | Younger Laboratory | Melvin Birch | 1/13/69 | CHX 604 | Oral LD-50<br>Skin Absorption MLD<br>Skin Irritation<br>Eye Irritation |
| Y-69-41 | Younger Laboratory | Melvin Birch | 5/5/69 | MCS 900 Aroclor 1242 30%* | Oral LD-50<br>Skin Absorption MLD<br>Skin Irritation<br>Eye Irritation<br>Vapor Inhalation |
| Y-69-42 | Younger Laboratory | Melvin Birch | 5/5/69 | A Functional Fluid Formulation Aroclor 1242 40%* | Oral LD-50<br>Skin Absorption MLD<br>Skin Irritation<br>Eye Irritation<br>Vapor Inhalation |
| Y-69-50 | Younger Laboratory | Melvin Birch | 5/28/69 | Santicizer 630 Lot EL 9007 HB 40 33%* | Range Finding Acute Oral Toxicity<br>Skin Absorption MLD<br>Skin Irritation<br>Eye Irritation |

* Percents shown for blends.



PCB-ARCH-EXT0379415

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| Y-69-57 | Younger Laboratory | Melvin Birch | 7/18/69 | MCS 9001 (therminol FR-LO temp) | Oral LD-50<br>Skin Absorption MLD<br>Skin Irritation<br>Eye Irritation<br>Vapor Inhalation |
| Y-72-43 | Younger Laboratory | Melvin Birch | 3/8/72 | Therminol 44--Lot QET 179075 therminol 55 9.5% | Oral LD-50<br>Acute Skin Absorption<br>Minimal Lethal Dose<br>Skin Irritation<br>Eye Irritation<br>Vapor Inhalation |
| Y-72-145 | Younger Laboratory | Melvin Birch | 8/3/72 | Therminol 77 (used) from TRW Systems- TSR 43/72 bisphenoxy biphenyl | Acute Oral Minimal Lethal Dose<br>Acute Skin Absorption Minimal Lethal Dose<br>Skin Irritation<br>Eye Irritation |
| Y-72-146 | Younger Laboratory | Melvin Birch | 8/3/72 | Fluidics Alkylate Lot TSR 35/72 | Acute Oral Minimal Lethal Dose<br>Acute Skin Absorption Minimal Lethal Dose<br>Skin Irritation<br>Eye Irritation<br>Vapor Inhalation |
| Y-72-249 | Younger Laboratory | Melvin Birch | 10/2/72 | Therminol 66 Lot AB10 | Vapor Inhalation |
| Y-72-252 | Younger Laboratory | Melvin Birch | 10/22/75 | Aroclor 1016 | Acute Oral Toxicity<br>Acute Dermal Toxicity<br>Acute Eye Irritation<br>Primary Skin Irritation<br>Inhalation Toxicity |

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| Y-73-285 | Younger Laboratory | Melvin Birch | 1/17/74 | MCS 1039 biphenyl 26.5%* | Acute Oral Toxicity<br>Acute Dermal Toxicity<br>Acute Eye Irritation<br>Primary Skin Irritation<br>Inhalation Toxicity |
| Y-76-354 | Younger Laboratory | Melvin Birch | 11/5/76 | LIGHT HI BOILER (therminol 55-1976) | Acute Oral Toxicity<br>Acute Dermal Toxicity<br>Acute Eye Irritation<br>Primary Skin Irritation<br>Inhalation Toxicity |
| Y-74-46-55<br>Special Study 74-6 | Younger Laboratory | Melvin Birch | 6/8/74 | ? | ? |
| Y-79-67 | Younger Laboratory | Melvin Birch | 5/30/79 | Santicizer 558 | Acute Oral Toxicity<br>Acute Dermal Toxicity<br>Acute Eye Irritation<br>Primary Skin Irritation<br>Inhalation Toxicity |

* Percents shown for blends.

# INDUSTRIAL BIO-TEST LABORATORIES THERMINOL STUDIES

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| BTL-62-4 | Industrial Bio-Test Lab. | R. Palazzolo<br>John Kay | 3/28/63 | Aroclor 1254<br>trichlorobiphenyl | Subacute<br>Dermal Toxicity |
| BTL-69-33 | Industrial Bio-Test Lab. | Carmon Mastri<br>M.L. Keplinger<br>Otis Fancher | 6/13/69 | Aroclor 1242<br>Aroclor 1254<br>Aroclor 1260<br>Aroclor 5460<br>Toxaphene<br>Technical DDT<br>Halowax 1099<br>trichlorobiphenyl | Toxicity |
| BTL-70-11 | Industrial Bio-Test Lab. | Carmen Mastri<br>M.L. Keplinger<br>Otis Fancher | 9/11/70 | HB-40<br>(therminal 66)<br>hydrogenated terphenyl | Acute Oral Toxicity<br>Acute Dermal Toxicity<br>Eye Irritation<br>Primary Skin Irritation |
| BTL-70-16 | Industrial Bio-Test Lab. | James Stephens<br>Donald Jenkins<br>M.L. Keplinger<br>Otis Fancher | 6/4/70 | Aroclor 1242<br>Aroclor 1254<br>Aroclor 1260<br>trichlorobiphenyl | Toxicity<br>Reproduction<br>Residue |
| BTL-71-1 | Industrial Bio-Test Lab. | Carmen Mastri<br>M.L. Keplinger<br>Otis Fancher | 3/25/71 | Aroclor 1221<br>Aroclor 5442<br>MCS 1016 | Acute oral toxicity<br>Acute dermal toxicity<br>Eye Irritation<br>Skin Irritation |
| BTL-71-11 | Industrial Bio-Test Lab. | James Plank<br>M.L. Keplinger<br>Otis Fancher | 9/8/71 | Aroclor 1242 | Teratogenic Studies |
| BTL-71-67 | Industrial Bio-Test Lab. | Dale Fletcher<br>Donald Jenkins<br>M.L. Keplinger<br>Otis Fancher | 6/15/71 | Aroclor 1242 Lot AK 255<br>trichlorobiphenyl<br>halogenated biphenyl | Toxicity<br>Reproduction<br>Residue |

INDUSTRIAL BIO-TEST LABORATORIES THERMINOL STUDIES Continued

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| BTL-71-68 | Industrial Bio-Test Lab. | Sandra Haley<br>James Plank<br>Paul Wright<br>M.L. Keplinger | 11/1/71 | Aroclor 1242<br>Halogenated biphenyl | Three Generation Reproduction Study<br>Subacute oral toxicity |
| BTL-71-69 | Industrial Bio-Test | Phillip Smith<br>James Plank<br>Paul Wright<br>M.L. Keplinger | 11/12/71 | Aroclor 1242<br>Halogenated byphenyl | Two-year chronic oral toxicity |
| BTL-71-70 | Industrial Bio-Test Lab. | Bruce Burtner<br>Dennis Lindberg<br>Paul Wright<br>M.L. Keplinger | 1/1/71 | Aroclor 1254<br>Aroclor 1242<br>Aroclor 1260<br>Halogenated biphenyl | Two year chronic oral toxicity |
| BTL-71-72 | Industrial Bio-Test Lab. | James Plank<br>M.L. Keplinger<br>Otis Fancher | 9/8/71 | Aroclor 1254<br>Halogenated biphenyl<br>Chlorinated biphenyl<br>54%* | Teratogenic study |
| BTL-72-16 | Industrial Bio-Test Lab. | M.S. Reyna<br>Paul Wright<br>M.L. Keplinger | 10/3/72 | Therminol 55<br>Heat Transer Liquid | 90-day toxicity study |
| BTL-72-17 | Industrial Bio-Test Lab. | Dale Fletcher<br>Donald Jenkins<br>M.L. Keplinger | 6/23/72 | Therminol 55 | 30-day feeding study |
| BTL-72-18 | Industrial Bio-Test Lab. | Dale Fletcher<br>Donald Jenkins<br>M.L. Keplinger | 12/18/72 | therminol 55<br>(1968-1975)<br>pcb ?<br>mixture of aklylate<br>H-230 and H 230L | toxicity<br>Reproduction<br>Residue |
| BTL-72-19 | Industrial Bio-Test Lab. | Dale Fletcher<br>Donald Jenkins<br>M.L. Keplinger | 6/26/72 | therminol 66<br>hydrogenated terphenyl | 30 day feeding study |

* Percents shown for blends.

INDUSTRIAL BIO-TEST LABORATORIES THERMINOL STUDIES Continued

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| BTL-72-20 | Industrial Bio-Test Lab. | Dale Fletcher<br>Donald Jenkins<br>M.L. Keplinger | 12/18/72 | therminol 66<br>hydrogenated terphenyl | Toxicity<br>Reproduction<br>Residue |
| BTL-72-21 | Industrial Bio-Test Lab. | M.S. Reyna<br>Paul Wright<br>M.L. Keplinger | 9/14/72 | therminol 66<br>heat transfer liquid<br>hydrogenated terphenyl | 10 week subacute oral toxicity study |
| BTL-72-32 | Industrial Bio-Test Lab. | John Hamlin<br>Carmen Mastri | 4/4/72 | MCS 1175 Lot QA-1 | 4 day static fish toxicity studies |
| BTL-72-32 | Industrial Bio-Test Lab. | John Rice<br>Carmen Mastri | 5/24/72 | therminol 55<br>(pcb?) | 4 day static fish toxicity studies |
| BTL-72-34 | Industrial Bio-Test Lab. | John Rice<br>Carmen Mastri | 5/24/72 | therminol 66<br>hydrogenated terphenyl | 4 day static fish toxicity studies |
| BTL-72-35 | Industrial Bio-Test Lab. | John Rice<br>Carmen Mastri | 5/24/72 | therminol 77<br>not available | 4 day static fish toxicity studies |
| BTL-72-36 | Industrial Bio-Test Lab. | John Rice<br>Carmen Mastri | 5/24/72 | therminol 88<br>terphenyl, mixed isomer | 4 day static fish toxicity studies |
| BTL-72-59 | Industrial Bio-Test Lab. | Gary Rausina<br>J. W. Goode | ? | Hi Boiling fraction | 4 day fish toxicity studies |
| BTL-72-64 | Industrial Bio-Test Lab. | ? | | Aroclor 1260 | 4 day fish toxicity studies |
| BTL-72-82 | Industrial Bio-Test Lab. | Gary Rausina<br>J. W. Goode | ?<br>1972 | Aroclor 1242<br>trichlorobiphenyl | 4 day fish toxicity studies |
| BTL-72-103 | Industrial Bio-Test Lab. | Kenneth Ebbens<br>Carmen Mastri<br>M.L. Keplinger | 11/17/72 | Aroclor 1242<br>Aroclor 1254<br>Aroclor 1260<br>chlorinated biphenyl 54%* | 4 day fish toxicity studies |

* Percents shown for blends.

INDUSTRIAL BIO-TEST LABORATORIES THERMINOL STUDIES Continued

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| BTL-72-129 | Industrial Bio-Test Lab. | John Hamlin<br>Carmen Mastri<br>M.L. Keplinger | 1/12/72 | Aroclor 1221<br>Aroclor 5432<br>Aroclor 5442<br>Aroclor 5460<br>MCS 1016 | 4 day fish toxicity studies |
| BTL-72-131 | Industrial Bio-Test Lab. | Bruce Brutner<br>Dennis Lindberg<br>Paul Wright<br>M.L. Keplinger | 12/30/71 | Aroclor 1221 | 90 day subacute oral toxicity |
| BTL-72-133 | Industrial Bio-Test Lab. | Bruce Brutner<br>Dennis Lindberg<br>Paul Wright<br>M.L. Keplinger | 1/31/72 | MCS 1016 | 90 day subacute oral toxicity |
| BTL-72-134 | Industrial Bio-Test Lab. | Dennis Arnold<br>Gerald Kennedy<br>M.L. Keplinger | 1/13/72 | Aroclor 1242<br>halogenated biphenyl | Mutagenic study |
| BTL-72-135 | Industrial Bio-Test Lab. | Dennis Arnold<br>Gerald Kennedy<br>M.L. Keplinger | 1/13/72 | Aroclor 1254<br>chlorinated biphenyl 54%* | Mutagenic study |
| BTL-72-137 | Industrial Bio-Test Lab. | Philip Smith<br>James Plank<br>Paul Wright<br>M.L. Keplinger | 4/28/72 | Aroclor 1221 | 90 day oral toxicity |
| BTL-72-138 | Industrial Bio-Test Lab. | Dale Fletcher<br>Donald Jenkins<br>M.L. Keplinger | 6/20/72 | MCS 1016 | Toxicity<br>Reproduction<br>Residue |
| BTL-72-139 | Industrial Bio-Test Lab. | Dale Fletcher<br>Donald Jenkins<br>M.L. Keplinger | 6/20/72 | Aroclor 1221 | Toxicity<br>Reproduction<br>Residue |
| BTL-73-70 | Industrial Bio-Test Lab. | Dale Fletcher<br>Donald Jenkins<br>M.L. Keplinger | 7/7/73 | Aroclor 1242<br>halogenated biphenyl | Toxicity<br>Reproduction |

* Percents shown for blends.

INDUSTRIAL BIO-TEST LABORATORIES THERMINOL STUDIES Continued

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| BTL-74-73 | Industrial Bio-Test Lab. | Terry Myers<br>John Goode | 2/7/75 | Santosol 100 | Acute aerosol inhalation toxicity |
| BTL-74-74 | Industrial Bio-Test Lab. | Terry Myers<br>John Goode | 2/7/75 | Santosol 340 (HB40) hydrogenated terphenyl | Acute aerosol inhalation toxicity |
| BTL-74-82 | Industrial Bio-Test Lab. | William Brewer<br>John Goode<br>Florence Kinoshita<br>M.L. Keplinger | 9/20/76 | Santosol 340 | 30 day pilot aerosol inhalation toxicity |

## DMEH THERMINOL STUDY

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| DA-78-184 | DMEH | F.A. Kulik<br>W.D. Ross | 12/5/78 | HB 40 hydrogenated terphenyl | Mutagenicity |

## LITTON BIONETICS THERMINOL STUDIES

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| B10-77-328 I | Litton Bionetics, Inc. | D.R. Jagannath<br>D.J. Busick | 12/77 | B 0-77-328 CP 2321 SR terphenyls, mixed isomers | Mutagenicity Plate |

## KETTERING LABORATORY THERMINOL STUDIES

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| K-48 | Kettering Laboratory | S. Witherup<br>H. Schlecht<br>A. Bacon<br>F. Cleveland<br>R. Kehoe | 4/9/52 | HB-40 hydrogenated terphenyls | Oral doses |
| K-50 | Kettering Laboratory | J. Treon<br>F. Cleveland<br>F. Shaffer<br>R. Atchley<br>J. Torbeck | 6/22/55 | Aroclor 1242<br>Aroclor 1254<br>hydrogenated biphenyl | Toxicity of vapor inhalation |

ANALYTICAL BIO CHEMISTRY LABORATORIES THERMINOL STUDIES

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| AB-79-135 | Analytical Bio Chemistry Laboratories, Inc. | Carl Thompson<br>Alan Forbis<br>James Ault<br>Lyle Johnson | 7/10/79 | Therminol 66 hydrogenated terphenyl | Acute Toxicity Bioassay |
| AB-79-136 | Analytical Bio Chemistry Laboratories, Inc. | Carl Thompson<br>Alan Forbis<br>Jim Ault<br>Lyle Johnson | 6/7/79 | Therminol 66 hydrogenated terphenyl | Acute Toxicity |
| AB-79-138 | Analytical Bio Chemistry Laboratories, Inc. | Jerry Griffen<br>Carl Thompson<br>William McAllister<br>Alan Forbis<br>James Ault<br>Lyle Johnson | 4/4/79 | Santosol 100 pcb? | Acute Toxicity |
| AB-79-205 | Analytical Bio Chemistry Laboratories, Inc. | Jerry Griffen<br>Carl Thompson<br>Alan Forbis<br>James Ault<br>Lyle Johnson | 5/7/79 | Therminol VP1 biphenyl 26.5%* | Acute Toxicity |
| AB-79-206 | Analytical Bio Chemistry Laboratories, Inc. | Carl Thompson<br>Alan Forbis<br>James Ault<br>Lyle Johnson | 8/14/79 | Therminol VP1 biphenyl 26.5%* | Acute Toxicity |

* Percents shown for blends.

MONSANTO INDUSTRIAL CHEMICALS CO. THERMINOL STUDIES

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| MO-77-625 Special Study | Monsanto Industrial Chemicals Co. | V. W. Saeger<br>P. R. Michael<br>J. P. Mieure | 6/8/77 | Cereclor 42<br>Santosol 340 hydrogenated terphenyl | Primary Biodegradation<br>Ultimate Biodegradation |
| MO-77-470-516 Special Study | Monsanto Industrial Chemicals Co. | V. W. Saeger<br>O. Hicks<br>R. G. Kaley<br>J. P. Mieure | 7/22/76 | 30%*Hydrogenated terphenyl (Santosol 300)<br>40%*Hydrogenated terphenyl (Therminol 66, Santosol 340)<br>Isopropylated biphenyl (Santosol 340)<br>Emulsified biphenyl (MCS 1572)<br>Monochlorobiphenyl (MCS 1547)<br>Alkylbenzene Still Bottoms (Therminol 55)<br>o,m,p-Terphenyl (Therminol 88)(MCS 1284)<br>Polychlorinated terphenyl (Aroclor 5432)<br>Polychlorinated terphenyl (Aroclor 5460) | Ultimate Biodegradation<br>Primary Biodegradation |
| MO-77-552-595 | Monsanto Industrial Chemicals Co. | V. W. Saeger<br>J. P. Mieure | 7/29/76 | 21%*Chlorinated biphenyl (Aroclor 1221)<br>30%*Chlorinated biphenyl (MCS 1043)(MCS 1414)<br>Pentachlorodiphenyl (MCS 1315)<br>Aroclor 1016<br>Aroclor 1242<br>Aroclor 1254 | Ultimate Biodegradation<br>Primary Biodegradation |

* Percents shown for blends.



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## SCIENTIFIC ASSOCIATES THERMINOL STUDIES

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| SA-15 | Scientific Laboratory | F. Younger | 11/10/53 | Aroclor 1254 chlorinated biphenyl 54%* | Acute oral toxicity LD-50 |
| SA-91 | Scientific Laboratory | F. Younger | 2/3/55 | OS-63 Aroclor 1248 48%* | Acute oral toxicity<br>Skin Absorption<br>Skin Irritation<br>Eye Irritation<br>Vapor Inhalation |

## EG & G Bionomics Therminol Studies

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| BN-79-137 | EG & G | Terry Hollister<br>Peter Shuba<br>Rod Parrish | 4/79 | Therminol 66 hydrogenated terphenyl | Phyotoxicity |
| BO-79-204 | EG & G | Terry Hollister<br>Peter Shuba<br>Rod Parrish | 4/79 | Therminol VP1 biphenyl 26.5%* | Phyotoxicity |

* Percents shown for blends.

# B I P H E N Y L S

## YOUNGER LABORATORIES SANTOLUBE STUDIES

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| Y-60-49 | Younger | Fred Younger | 8/6/60 | Santolube 830<br>formula missing | Oral LD-50<br>Skin Absorption MLD<br>Skin Irritation<br>Eye Irritation<br>Vapor Inhalation |
| Y-62-34 | Younger | Fred Younger | 6/19/62 | Santolube 64<br>Aroclor 1242<br>Therminol FR-1 | Oral LD-50<br>Skin Absorption MLD |
| Y-62-35 | Younger | Fred Younger | 6/19/62 | Santolube 65<br>Aroclor 1248<br>chlorinated biphenyl 48%* | Oral LD-50<br>Dermal LD-50<br>Eye Irritation<br>Skin Irritation |
| Y-62-52 | Younger | Fred Younger | 6/6/62 | Santolube 63<br>Aroclor 1232<br>chlorinated biphenyl 32%* | Oral LD-50<br>Dermal LD-50 |
| Y-66-163 | Younger | Fred Younger | 11/9/66 | MCS 153<br>Turbinol 153<br>Aroclor 1242 75.35%*<br>Aroclor 1232 12.85%* | Oral LD-50<br>Skin Absorption MLD |
| Y-67-105 | Younger | Fred Younger | 10/19/67 | (XA-140) Santicizer 1706<br>Aroclor 1242 20%* | Oral LD-50 |
| Y-68-127 | Younger | Fred Younger | | Santolube 65<br>Aroclor 1248<br>Therminol FR-2<br>chlorinated biphenyl 48%* | Oral LD-50<br>Dermal LD-50<br>Eye Irritation<br>Skin Irritation |

*Percents shown for blends in which a polychlorinated biphenyl is a component.

YOUNGER SANTOLUBE STUDIES (con't)

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| Y-69-41 | Younger | Melvin Birch | | MCS 900<br>Aroclor 1242 30%* | Oral LD-50<br>Skin Absorption MLD<br>Skin Irritation<br>Eye Irritation<br>Vapor Inhalation |
| Y-69-42 | Younger | Melvin Birch | 5/5/69 | Function Fluid Formulation<br>Aroclor 1242 40%* | Oral LD-50<br>Dermal LD-50<br>Eye Irritation<br>Skin Irritation<br>Vapor Inhalation |
| Y-74-55 | Younger | Melvin Birch | 6/8/74 | Aroclor 1242 | Animal Feeding Study<br>Tissue Residue Analyses |

* Percents shown for blends in which a polychlorinated substance is a component.



PCB-ARCH-EXT0379428

# INDUSTRIAL BIO-TEST LABORATORIES, INC. SANTOLUBE STUDIES

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| BT 69-33 | IBT | Carmen Mastri | 6/13/69 | Santolube 64<br>Aroclor 1242<br>Aroclor 1254<br>Aroclor 1260 | 96 Hour LC-50 |
| BT 70-16 | IBT | James Stephens<br>Donald Jenkins<br>M. L. Keplinger<br>Otis Francher | 6/4/70 | Santolube 64<br>Aroclor 1242<br>Aroclor 1254<br>Aroclor 1260<br>trichlorobiphenyl | Interpretation Toxicity, Reproduction and Residue Study in Leghorn Chickens |
| BT 71-67 | IBT | Dale Fletcher | 6/15/71 | Santolube 64<br>Aroclor 1242 | Interpretation Toxicity, Reproduction and Residue Study in White Leghorn Chickens |
| BT 71-68 | IBT | Sandra Haley<br>James Plank<br>Paul Wright<br>M. L. Keplinger | 11/1/71 | Santolube 64<br>Aroclor 1242<br>halogenated biphenyl | Interpretation 3 Generation Reproduction Study |
| BT 71-69 | IBT | Phillip Smith<br>James Plank<br>Paul Wright<br>M. L. Keplinger | 11/12/71 | Santolube 64<br>Aroclor 1242<br>halogenated biphenyl | Interpretation Two-year chronic oral toxicity |
| BT 71-70 | IBT | Bruce Burtner<br>Dennis Lindberg<br>Paul Wright<br>M. L. Keplinger | 1/1/71 | Aroclor 1254<br>Aroclor 1242<br>Aroclor 1260<br>halogenated biphenyl | Interpretation Two-Year Chronic Oral Toxicity |

INDUSTRIAL BIO-TEST LABORATORIES, INC. SANTOLUBE STUDIES (con't)

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| BT 71-71 ✓ | IBT | James B. Plank | 9/8/71 | Aroclor 1242 | Interpretation Teratogenic Study in Albino Rats |
| BT 71-73 ✓ | IBT | James B. Plank | 9/9/71 | Aroclor 1260 | Interpretation Terotogenic Study in Albino Rats |
| BT 72-134 / | IBT | Dennis Arnold | 1/31/72 | Aroclor 1242 | Interpretation Mutagenic Study in Mice |

## SCIENTIFIC ASSOCIATES SANTOLUBE STUDIES

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| SA 53-0020 | Scientific Associates | Fred Younger | 1/13/54 | OS-63 | Acute Oral Toxicity<br>Inhalation of Fumes<br>Ocular Irritation<br>by OS-54 |
| SA-55-0091 | Scientific Associates | Fred Younger | 2/3/55 | OS-54 | Acute Oral Toxicity<br>Skin Absorption<br>Skin Irritation<br>Eye Irritation<br>Vapor Inhalation |

## KETTERING LABORATORY SANTOLUBE STUDY

| | | | | | |
|---|---|---|---|---|---|
| K 54-0050 | Kettering Laboratory | Joseph Treon | 6/22/55 | Aroclor 1242<br>Aroclor 1254 | Vapor Toxicity |

## MONSANTO INDUSTRIAL CHEMICALS COMPANY SANTOLUBE STUDIES

| | | | | | |
|---|---|---|---|---|---|
| MO-77-588 | Monsanto | W.W. Saeger | 7/29/76 | Aroclor 1221<br>chlorinated biphenyl 21%* | Microbial Biodegradation<br>Biodegradation Studies<br>and Interpretations |
| MO-77-589 | Monsanto | W.W. Saeger | 7/29/76 | MCS 1043 | " " |
| Mo-77-591 | Monsanto | W.W. Saeger | 7/29/76 | Aroclor 1016 | " " |
| MO-77-592 | Monsanto | W.W. Saeger | 7/29/76 | Aroclor 1242 | " " |
| MO-77-593 | Monsanto | W.W. Saeger | 7/29/76 | Aroclor 1254 | " " |

*Percents shown for blends in which a polychlorinated biphenyl is a component.



PCB-ARCH-EXT0379431

INDUSTRIAL BIO-TEST LABORATORIES, INC. AROCLOR STUDIES

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| BT-62-0004 ✓ | IBT | Richard J. Palazzolo | 3/28/63<br>3/27/63<br>3/4/63<br>3/29/63<br>3/28/63<br>5/17/63<br>3/28/63 | Aroclor 1221<br>Aroclor 1242<br>Aroclor 1248<br>Aroclor 1254<br>Aroclor 1268<br>Aroclor 4465<br>Aroclor 5460 | Subacute dermal toxicity in rabbits |
| BT 67-0012 ✓ | IBT | Claude Wolf | 10/18/67 | Aroclor 5460 | 90 days subacute oral toxicity |
| BT 67-0012A ✓ | IBT | Greenie Jackson | 12/18/67 | Aroclor 5460 | Chicken toxicity study |
| BT 67-0012B ✓ | IBT | Greenie Jackson | 7/11/67 | Aroclor 5460 | Egg hatchability and chick viability study |
| BT-69-0033 ✓ | IBT | Carmen Mastri | 6/13/69 | Aroclor 1242<br>Aroclor 1254<br>Aroclor 1260<br>Aroclor 5460 | 96 hr. LC-50 |
| BT-70-0016 X | IBT | James L. Stephens | 6/4/70 | Aroclor 1242<br>Aroclor 1254<br>Aroclor 1260 | Toxicity reproduction and residue study in white leghorn chickens |
| BT-71-0001 ✓ | IBT | Carmen Mastri | 3/25/71 | Aroclor 1016<br>Aroclor 1221<br>Aroclor 5442 | Oral LD-50<br>Dermal LD-50<br>Eye irritation<br>Skin Irritation<br>Vapor Irritation |



PCB-ARCH-EXT0379432

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| BT-71-0067 ✓ | IBT | Dale Fletcher | 6/15/71 | Aroclor 1242 | Toxicity reproduction and residue study in white leghorn chickens |
| BT-71-0068 / | IBT | Sandra Haley | 11/1/71<br>11/1/71<br>11/4/71 | Aroclor 1242<br>Aroclor 1254<br>Aroclor 1260 | Three generation reproduction study in albino rats |
| BT-71-0069 ✓ | IBT | Philip S. Smith | 11/12/71 | Aroclor 1242<br>Aroclor 1254<br>Aroclor 1260 | Two year chronic oral toxicity in albino rats |
| BT-71-0069A / | IBT | D.E. Gordon | 3/24/75 | Aroclor 1242<br>Aroclor 1254<br>Aroclor 1260 | Re-evaluation of original report dated 11/12/71 |
| BT-71-0070 ✓ | IBT | Bruce R. Burtner | 11/1/71 | Aroclor 1242<br>Aroclor 1254<br>Aroclor 1260 | Two year chronic oral toxicity in beagle dogs |
| BT-71-0071 ✓ | IBT | James B. Plank | 9/8/71 | Aroclor 1242 | Teratogenic study in albino rats |
| BT-71-0072 ✓ | IBT | James B. Plank | 9/8/71 | Aroclor 1254 | Teratogenic study in albino rats |
| BT-71-0073 X | IBT | James B. Plank | 9/9/71 | Aroclor 1260 | Teratogenic study in albino rats |



PCB-ARCH-EXT0379433

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| BT-71-0136 | IBT | Dennis Arnold | 1/13/72 | Aroclor 1260 | Mutagenic study in mice |
| BT-72-59 | IBT | Gary Rausina | -- | ~~PFP~~ | 4-Day fish toxicity studies |
| BT-72-60 | IBT | -- | -- | Cut #4 PFP | 4-Day fish toxicity studies |
| BT-72-61 | IBT | -- | -- | PFP | 4-Day fish toxicity studies |
| BT-72-62 | IBT | Gary Rausina | -- | PFP | 4-Day fish toxicity studies |
| BT-72-63 | IBT | -- | -- | PFP | 4-Day fish toxicity studies |
| BT-72-64 | IBT | -- | -- | Aroclor 1260 treated | 4-Day fish toxicity studies |
| BT-72-0082 | IBT | John W. Goode | 1972 | Aroclor 1242 | 96 hr. LC-50 |
| BT-72-0103 | IBT | Kenneth Ebbens | 11/17/72 | Aroclor 1242<br>Aroclor 1254<br>Aroclor 1260 | 96 hr. LC-50 |

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| BT-72-0129 | IBT | John Hamlin | 1/12/72 | Aroclor 1016<br>Aroclor 1221<br>Aroclor 5432<br>Aroclor 5442<br>Aroclor 5460 | 196 Hr. LC-50 |
| BT-72-130 | IBT | Dennis Yost | 1/31/7 | Aroclor 5432 | 90-Day subacute oral toxicity study in beagle dogs |
| BT-72-131 | IBT | Unknown | 12/30/71 | Aroclor 1221 | 90-Day subacute oral toxicity study in beagle dogs |
| BT-72-0132 | IBT | Bruce R. Burtner | 1/31/72 | Aroclor 5442 | 90-Day subacute oral toxicity study in dogs |
| BT-72-0133 | IBT | Bruce R. Burtner | 12/31/72 | Aroclor 1016 | 90-Day subacute oral toxicity study in dogs |
| BT-72-0134 | IBT | Dennis Arnold | 1/31/72 | Aroclor 1242 | Mutagenic study in mice |
| BT-72-0135 | IBT | Dennis Arnold | 1/13/72 | Aroclor 1254 | Mutagenic study in mice |
| BT-72-0137 | IBT | Philip S. Smith | 4/28/72 | Aroclor 1016<br>Aroclor 1221<br>Aroclor 5432<br>Aroclor 5442 | 90-Day subacute oral toxicity study in rats |

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| BT-72-0138 | IBT | Dale Fletcher | 6/20/72 | Aroclor 1016 | Toxicity reproduction and residue study in white leghorn chickens |
| BT-72-0139 | IBT | Dale Fletcher | 6/20/72 | Aroclor 1221 | Toxicity reproduction and residue study in white leghorn chickens |
| BT-73-0070 | IBT | Dale Fletcher | 1973 | Aroclor 1242 | Toxicity and reproduction study in white leghorn chickens |
| BT-74-69 | IBT | Gary Rausina | -- | MSC 1489 | 4-Day fish toxicity study |



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## SCIENTIFIC ASSOCIATES AROCLOR STUDIES

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| SA-1 | Scientific Associates | Fred M. Younger | 9-4-53 | Aroclor 5460 | Skin Irritation |
| SA-3 | Scientific Associates | Fred M. Younger | 9-9-53 | Aroclor 5460 | Skin Irritation |
| SA-15 | Scientific Associates | Fred M. Younger | 11-10-53 | Aroclor 1254 | Oral LD-50 |
| SA-19 | Scientific Associates | Fred M. Younger | 12-11-53 | Aroclor 1242* | Oral LD-50 |
| SA-20? | Scientific Associates | Fred M. Younger | 1-13-54 | Aroclor 1248* | Oral LD-50<br>Inhalation Study<br>Eye Irritation |
| SA-91 | Scientific Associates | Fred M. Younger | 2-3-55 | Aroclor 1242* | Oral LD-50<br>Skin Irritation and Absorption<br>Eye Irritation<br>Vapor Inhalation |

*Denotes Aroclor Blend

YOUNGER LABORATORY STUDIES
AROCLORS AND AROCLOR BLENDS

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| Y-57-22 | Younger Lab | Fred Younger | 7/9/57 | Aroclor 1270 | Oral LD-50<br>Eye Irritation<br>Skin Irritation |
| Y-62-34 | Younger Lab | Fred Younger | 6/19/62 | Aroclor 1242 | Oral LD-50<br>Dermal LD-50 |
| Y-62-35 | Younger Lab | Fred Younger | 6/19/62 | Aroclor 1248 | Oral LD-50<br>Dermal LD-50 |
| Y-62-36 | Younger Lab | Fred Younger | 6/25/62 | Aroclor 1254 | Oral LD-50<br>Dermal LD-50 |
| Y-62-37 | Younger Lab | Fred Younger | 6/25/62 | Aroclor 1260 | Oral LD-50<br>Dermal LD-50 |
| Y-62-38 | Younger Lab | Fred Younger | 6/25/62 | Aroclor 1262 | Oral LD-50<br>Dermal LD-50 |
| Y-62-41 | Younger Lab | Fred Younger | 6/13/62 | Aroclor 1221 | Oral LD-50<br>Dermal LD-50 |
| Y-62-42 | Younger Lab | Fred Younger | 6/13/62 | Aroclor 1268 | Oral LD-50<br>Dermal LD-50 |
| Y-62-43 | Younger Lab | Fred Younger | 7/17/62 | Aroclor 2565 | Oral LD-50<br>Skin Absorption<br>MLD (mild irritation effects) |
| Y-62-44 | Younger Lab | Fred Younger | 7/3/62 | Aroclor 4465 | Oral LD-50<br>Skin Absorption<br>Skin and Eye Irritation |



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| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| Y-62-45 X | Younger Lab | Fred Younger | 7/5/62 | Aroclor 5442 | Oral LD-50<br>Skin Absorption |
| Y-62-45 X<br>Y-62-46 X | Younger Lab<br>" " | Fred Younger<br>" | 7/13/62<br>9/1/64 | 60%* chlorinated (same as Aroclor 5460) " " | Oral LD-50<br>Skin Absorption<br>REDUCED APPETITE; ORAL LD-50 MODERATE LETHARGY |
| Y-62-48 X | Younger Lab | Fred Younger | 5/1/62 | Benzal SD (Aroclor 5442) halogenated terphenyl | Oral LD-50<br>Skin Absorption<br>Skin and Eye Irritation |
| ~~Y-62-52~~ ✓ | ~~Younger Lab~~ | ~~Fred~~ Younger | 6/6/62 | ~~Aroclor 1232~~ | ~~Oral LD-50~~<br>Dermal LD-50 |
| ~~Y-63-11~~ ✓ | ~~Younger Lab~~ | Fred Younger | 3/4/63 | Pyranol 1470 | ~~Oral LD-50~~<br>Skin Absorption |
| ~~Y-63-12~~ ✓ | ~~Younger Lab~~ | ~~Fred~~ Younger | 3/4/63 | ~~Interteen PPO~~ | ~~Oral LD-50~~<br>Skin Absorption<br>Skin and Eye Irritation<br>Vapor Inhalation |
| ~~Y-63-88~~ ✓ | ~~Younger Lab~~ | ~~Fred~~ Younger | 12/19/63 | ~~Aroclor 1242 74.8%*~~<br>Aroclor 1221 12.4%* | ~~Oral LD-50~~<br>Skin Absorption |
| Y-64-49 X | Younger Lab | Fred Younger | 6/13/64 | Therminol FRO MCS 29.5%* | Oral LD-50<br>Skin Absorption<br>Skin and Eye Irritation |

*Percent Shown for Blends

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| Y-65-214 | Younger Lab | Fred Younger | 1-12-66 | Aroclor 1254 10%* Aroclor 1248 43.7%* | Oral LD-50 Oral MLD Skin Absorption Skin and Eye Irritation Vapor Inhalation |
| Y-66-151 | 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 |
| Y-66-164 | Younger Lab | Fred Younger | 11-9-66 | Aroclor 1254 10%* Aroclor 1248 43.7%* | Oral LD-50 Skin Absorption MLD |
| Y-67-105 | Younger Lab | Fred Younger | 10-19-67 | Aroclor 1242 20%* | Oral LD-50 |
| Y-68-64 | Younger Lab | Fred Younger | 5-27-68 | Aroclor 5460 | Vapor Inhalation |
| Y-68-87 | Younger Lab | Fred Younger | 8-8-68 | Aroclor 5460 38.5%* | Oral LD-50 Skin Absorption Skin and Eye Irritation Vapor Inhalation |
| Y-68-127 | Younger Lab | Fred Younger | 1-13-69 | Aroclor 1248 | Oral LD-50 Dermal LD-50 Eye Irritation Skin Irritation |
| Y-68-133 | Younger Lab | Melvin Birch | 1-22-69 | Fluorinated Aroclor 1254 | Oral LD-50 Skin Absorption Skin and Eye Irritation |

*Percent Shown for Blends

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| Y-69-41 | Younger Lab | Melvin Birch | 5-5-69 | Aroclor 1242 30%* | Oral LD-50<br>Skin Absorption<br>Skin and Eye Irritation<br>Vapor Inhalation |
| Y-69-42 | Younger Lab | Melvin Birch | 5-5-69 | Aroclor 1242 40%* | Oral LD-50<br>Skin Absorption<br>Skin and Eye Irritation<br>Vapor Inhalation |
| Y-69-53 | Younger Lab | Melvin Birch | 7-7-69 | Fluorinated Aroclor 1254 | Oral LD-50<br>Skin Absorption<br>Skin Irritation<br>Eye Irritation<br>Vapor Inhalation |
| Y-69-54 | Younger Lab | Melvin Birch | 6-30-69 | Brominated Aroclor 1221 | Oral LD-50<br>Skin Absorption<br>Skin Irritation<br>Eye Irritation |
| Y-70-1 | Younger Lab | Melvin Birch | 2-4-70 | Aroclor 5430 | Oral LD-50<br>Skin Absorption<br>Skin Irritation<br>Eye Irritation |
| Y-70-74 | Younger Lab | Melvin Birch | 8-17-70 | Aroclor 6060 | Oral LD-50<br>Skin Absorption<br>Skin Irritation<br>Eye Irritation |

*Percent Shown for Blends



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| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| Y-70-114 | Younger Lab | Melvin Birch | 12-2-70 | Aroclor 6037 | Oral LD-50<br>Skin Absorption<br>Skin Irritation<br>Eye Irritation<br>Vapor Inhalation |
| Y-70-116 | Younger Lab | Melvin Birch | 12-14-70 | Aroclor 4273 | Oral LD-50<br>Skin Absorption<br>Skin Irritation<br>Eye Irritation<br>Vapor Inhalation |
| Y-70-123 | Younger Lab | Melvin Birch | 12-30-70 | Aroclor 6040 | Oral LD-50<br>Skin Absorption<br>Skin Irritation<br>Eye Irritation<br>Vapor Inhalation |
| Y-70-124 | Younger Lab | Melvin Birch | 12-30-70 | Aroclor 6050 (Chlorinated polyphenyl) | Oral LD-50<br>Skin Absorption<br>Skin Irritation<br>Eye Irritation<br>Vapor Inhalation |
| Y-70-125 | Younger Lab | Melvin Birch | 12-30-70 | Aroclor 6070 (Chlorinated polyphenyl) | Oral LD-50<br>Skin Absorption |
| Y-70-126 | Younger Lab | Melvin Birch | 12-30-70 | Aroclor 6090 | Oral Toxicity<br>Skin Absorption<br>Skin Irritation<br>Eye Irritation |
| Y-71-14 | Younger Lab | Melvin Birch | 2-14-72 | Aroclor 0114 | Oral LD-50<br>Acute Skin Absorption<br>Skin Irritation<br>Eye Irritation |



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| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| Y-71-57 ✓ | Younger Lab | Melvin Birch | 3-31-71 | Aroclor 5468 | Oral Dosage<br>Skin Absorption<br>Skin Irritation<br>Eye Irritation |
| Y-71-105 ✓ | Younger Lab | Melvin Birch | 6-28-71 | Aroclor 1272 | Oral LD-50<br>Dermal LD-50<br>Eye irritation<br>Skin irritation |
| Y-71-187 ✓ | Younger Lab | Melvin Birch | 1-12-72 | Aroclor 1016 44%* (German Mine Fluid) | Oral Lethal Dose<br>Skin Absorption<br>Skin Irritation<br>Eye Irritation<br>Vapor Inhalation |
| Y-71-189 ✓ | Younger Lab | Melvin Birch | 1-12-72 | Aroclor 1016 43%* | Oral LD-50<br>Skin Absorption<br>Skin Irritation<br>Eye Irritation |
| Y-73-150 ✓ | YOUNGER | MELVIN BIRCH | 9-4-73 | MCS 1572 LOT NBP-227465 | |
| Y-73-158 ✓ | Younger Lab | Melvin Birch | 9-17-73 | MCS 1489 | Oral LD-50<br>Acute Skin Absorption<br>Skin Irritation<br>Eye Irritation<br>Vapor Inhalation |
| ~~Y-74-54-J~~ | ~~Younger Lab~~ | | 7-10-74 | Aroclor 1016 | ~~Tissue Residue~~ accumulation and depletion study in rats |

*Percent Shown for Blends

# B I P H E N Y L S

## YOUNGER LABORATORIES TURBINOL STUDIES
## SCIENTIFIC ASSOCIATES TURBINOL STUDIES

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| Y-64-7 | Younger Laboratories | Fred Younger | 2/13/64 | FH-159<br>Aroclor 1232 68%*<br>Dibromoethyl-benzene 32%* | Oral LD-50<br>Oral MLD<br>Skin absorption MLD<br>Skin irritation<br>Eye irritation<br>Vapor inhalation |
| Y-64-74<br>~~Y-64-74B~~? | Younger Laboratories | Fred Younger | 7/6/64 | Skydrol 500A? | Skin irritation |
| Y-64-77 | Younger Laboratories | Fred Younger | 7/20/64 | FH-159<br>Aroclor 1232 35%* | Oral LD-50<br>Skin absorption<br>Skin irritation<br>Eye irritation<br>Vapor inhalation |
| ~~Y-66-151~~ | Younger Laboratories | Fred Younger | 10/17/66 | MCS-90<br>Aroclor 1242 37.7%*<br>Aroclor 1232 6%* | Oral LD-50<br>Skin absorption<br>Skin irritation<br>Eye irritation<br>Vapor inhalation |
| ~~Y-66-163~~<br>(Y-66-163) | ~~Younger Laboratories~~ | ~~Fred Younger~~ | ~~11/9/66~~ | ~~MCS-153~~<br>Aroclor 1242 75.35%*<br>Aroclor 1232 12.85%* | ~~Oral LD-50~~<br>~~Skin absorption MLD~~ |
| SA-(53)-20 | Scientific Associates | Fred Younger | 1/13/54 | OS-54 (functional fluid)<br>Formula not available* | Oral LD-50<br>Inhalation studies |
| SA-(55)-91 | Scientific Associates | Fred Younger | 2/3/55 | OS-63<br>Aroclor 1242 48%* | Oral LD-50<br>Skin absorption<br>Skin irritation<br>Eye irritation<br>Vapor inhalation |

*Percents shown for blends in which a polychlorinated biphenyl is a component.

## MISCELLANEOUS STUDIES

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| K-54-0050 | Kettering | Joseph F. Trevon<br>Frank P. Cleveland<br>John Cappel<br>Frederic E. Shaffer<br>Raleph W. Atchley<br>John P. Torbeck | 6/22/55 | Aroclor 1242<br>Aroclor 1254 | Inhalation exposure of cats, guinea pigs, mice, rabbits and rats |
| -- | Monsanto | William Gaffey<br>Ferdinand Meyer<br>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 |



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| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| Y-74-55 ✓ | Younger Lab | Melvin Birch | 6-8-74 | Aroclor 1016<br>Aroclor 1242 | Tissue Residue accumulation and depletion study in rats |
| Y-75-0252 ✓ | Younger Lab | Melvin Birch | 10-22-75 | Aroclor 1016 | Oral LD-50<br>Dermal LD-50<br>Eye Irritation<br>Skin Irritation |



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# B I P H E N Y L S

## YOUNGER LABORATORIES, INC. MCS 1489 STUDIES

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| Y-73-158 | Younger | Melvin Birch | 9/17/73 | MCS 1489 | Oral LD-50<br>Acute Skin Absorption MLD<br>Skin Irritation<br>Eye Irritation<br>Vapor Inhalation |
| Y-74-53 | Younger | Melvin Birch | 6/8/74 | MCS 1489 | Animal Feeding Study<br>Tissue Residue Analyses |

## INDUSTRIAL BIO-TEST LABORATORIES, INC. MCS STUDIES

| | | | | | |
|---|---|---|---|---|---|
| BTL-74-69 | IBT | Gary Rausina | 1974 | MCS 1489 | 4 Day Static Fish Toxicity Study |

# B I P H E N Y L S

## YOUNGER LABORATORIES INERTEEN STUDIES

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| ~~Y-63-11~~ | Younger Laboratories | Fred Younger | 3/4/63 | Pyranol 1470 | ~~Oral LD-50~~ Skin absorption MLD; skin irritation; eye irritation; vapor inhalation |
| ~~Y-63-12~~ | Younger Laboratories | Fred Younger | 3/4/63 | ~~Inerteen PPO~~ | ~~Oral LD-50~~ Skin absorption MLD; skin irritation; eye irritation; vapor inhalation |
| ~~Y-69-41~~ | Younger Laboratories | Melvin D. Birch | 5/5/69 | MCS 900 Aroclor 1242 30%* | Oral LD-50 Skin absorption Skin irritation Eye irritation |

* Percents shown for blends in which a polychlorinated biphenyl is a component.

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| Y-63-12 | Younger Laboratory | Fred Younger | 3/4/63 | Inerteen PPO (Westinghouse) Aroclor 1260 60%* | Oral LD-50<br>Skin Absorption MLD |
| Y-63-88 | Younger Laboratory | Fred Younger | 12/19/63 | MCS-300 Aroclor 1242 74.8%* Aroclor 1221 12.4%* | Oral LD-50<br>Skin Absorption MLD<br>Skin Irritation<br>Eye Irritation<br>Vapor Inhalation |
| Y-64-91 | Younger Laboratory | Fred Younger | 8/11/64 | Pydraul 280 A-200 55%* A-625 45%* | Oral LD-50<br>Skin Absorption MLD<br>Eye Irritation<br>Skin Irritation<br>Vapor Inhalation |
| Y-64-133 | Younger Laboratory | Fred Younger | 11/12/64 | Pydraul 312 Aroclor 1242 45.4%* | Oral LD-50<br>Skin Absorption MLD<br>Eye Irritation<br>Vapor Inhalation |
| Y-65-213 | Younger Laboratory | Fred Younger | 1/10/66 | Pydraul 135 Aroclor 1242 42.7%* | Oral LD-50<br>Oral MLD<br>Skin Irritation<br>Skin Absorption<br>Eye Irritation<br>Vapor Inhalation |
| Y-65-214 | Younger Laboratory | Fred Younger | 1/12/66 | Pydraul 312-High Viscosity Aroclor 1248 43.7%* Aroclor 1254 10.0%* | Oral LD-50<br>Oral MLD<br>Skin Absorption MLD<br>Skin Irritation<br>Eye Irritation<br>Vapor Inhalation |

*Percents shown for blends in which a polychlorinated biphenyl is a component.

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| Y-66-158 | Younger Laboratory | Fred Younger | 11/9/66 | Pydraul AC | Oral LD-50<br>Skin Absorption MLD |
| Y-66-159 | Younger Laboratory | Fred Younger | 11/9/66 | Pydraul F-9 | Oral LD-50<br>Skin Absorption MLD |
| Y-66-160 | Younger Laboratory | Fred Younger | 11/9/66 | Pydraul 135<br>Aroclor 1242 42.7%* | Oral LD-50<br>Skin Absorption MLD |
| Y-66-161 | Younger Laboratory | Fred Younger | 11/9/66 | Pydraul 280<br>Pydraul A-200 55%*<br>Pydraul 625 45%* | Oral LD-50<br>Slom Absorption MLD |
| Y-66-162 | Younger Laboratory | Fred Younger | 11/9/66 | Pydraul 625(0S-83)<br>Aroclor 1260 50%* | Oral LD-50<br>Skin Absorption MLD |
| ✓ Y-66-164 | Younger Laboratory | Fred Younger | 11/9/66 | MCS 404 Pydraul 312 High Viscosity<br>Aroclor 1248 43.7%*<br>Aroclor 1254 10.0%* | Oral LD-50<br>Skin Absorption MLD |

* Percents shown for blends in which a polychlorinated biphenyl is a component.

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| Y-67-100 | Younger Laboratory | Fred Younger | 10/13/67 | Pydraul 230<br>Aroclor 1242<br>55-60%* | Oral LD-50, skin absorption<br>skin irritation<br>eye irritation<br>vapor inhalation |
| Y-67-105 | Younger Laboratory | Fred Younger | 10/19/67 | (XA-140) Santicizer 1706<br>Aroclor 1242 20%* | Oral LD-50 |
| Y-68-133 | Younger Laboratory | Melvin Birch | 1/22/69 | Fluorinated Aroclor 1254 (halogenated biphenyl) | Oral LD-50<br>skin absorption MLD<br>skin irritation<br>eye irritation |
| Y-68-135 | Younger Laboratory | Melvin Birch | 1/22/69 | Pydraul 312 (MCS-312) OR-116021<br>Aroclor 1242 45.4%* | Oral LD-50<br>skin absorption MLD<br>skin irritation<br>eye irritation |
| Y-69-41 | Younger Laboratory | Melvin Birch | 5/5/69 | MCS 900<br>Aroclor 1242 30%* | Oral LD-50<br>skin absorption MLD<br>skin irritation<br>eye irritation<br>vapor inhalation |
| Y-69-42 | Younger Laboratory | Melvin Birch | 5/5/69 | A Functional Fluid Formulation<br>Aroclor 1242 40%* | Oral LD-50<br>skin absorption MLD<br>skin irritation<br>eye irritation<br>vapor inhalation |

* Percent shown for blends in which a polychlorinated biphenyl is a component.

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| Y-69-53 | Younger Laboratory | Melvin Birch | 7/7/69 | Fluorinated Aroclor 1254 (OR 16827) | Oral LD-50<br>skin absorption MLD<br>skin irritation<br>eye irritation<br>vapor inhalation |
| Y-69-148 | Younger Laboratory | Melvin Birch | 1/6/70 | Pydraul AC-A<br>Winter Grade 28<br>Aroclor 5442 24%* | Oral LD-50<br>skin absorption MLD<br>skin irritation<br>eye irritation<br>vapor inhalation |
| Y-69-149 | Younger Laboratory | Melvin Birch | 1/16/70 | MCS 976, Pydraul AC-A<br>Aroclor 5442 43.8%* | Oral LD-50<br>skin absorption<br>skin irritation<br>eye irritation<br>vapor inhalation |
| Y-69-150 | Younger Laboratory | Melvin Birch | 1/16/70 | MCS 975, Pydraul 625-A<br>Aroclor 5442 51.5%* | Oral LD-50<br>skin absorption MLD<br>skin irritation<br>eye irritation<br>vapor inhalation |
| Y-70-25 | Younger Laboratory | Melvin Birch | 3/27/70 | Pydraul 281, Lot QL-42 | Oral LD-50<br>skin absorption MLD<br>skin irritation<br>eye irritation<br>vapor inhalation |

* Percents shown for blends in which a polychlorinated biphenyl is a component.

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| Y-70-43 | Younger Laboratory | Melvin Birch | 5/25/70 | MCS 1009 | Oral LD-50<br>skin absorption MLD<br>skin irritation<br>eye irritation<br>vapor inhalation |
| Y-70-44 | Younger Laboratory | Melvin Birch | 5/25/70 | MCS 1007<br>Aroclor 5432 42.5%* | Acute Oral Toxicity<br>skin absorption MLD<br>skin irritation<br>eye irritation<br>vapor inhalation |
| Y-70-45 | Younger Laboratory | Melvin Birch | 5/25/70 | MCS 999 | Oral LD-50<br>skin absorption MLD<br>skin irritation<br>eye irritation<br>vapor inhalation |
| Y-70-86 | Younger Laboratory | Melvin Birch | 9/8/70 | MCS 974-Patch 6-1<br>Aroclor 1242 61%* | Oral LD-50<br>skin absorption<br>skin irritation<br>eye irritation<br>vapor inhalation |
| Y-70-87 | Younger Laboratory | Melvin Birch | 9/14/70 | MCS 1007-Pydraul 9A (Amendment 1)<br>Aroclor 5432 42.5%* | Oral LD-50<br>skin absorption<br>skin irritation<br>Eye irritation<br>vapor inhalation |

* Percents shown for blends in which a polychlorinated biphenyl is a component.

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| Y-71-37 | Younger Laboratory | Melvin Birch | 3/17/71 | Pydraul 150A, Lot OR 162439 | Oral LD-50<br>Acute skin absorption<br>Minimal lethal dose<br>skin irritation<br>eye irritation<br>vapor inhalation |
| Y-71-38 | Younger Laboratory | Melvin Birch | 3/17/71 | Pydraul 312A, Lot OR 162437<br>Aroclor 5432 31% * | Oral LD-50<br>Acute skin absorption<br>minimal lethal dose<br>skin irritation<br>eye irritation<br>vapor inhalation |
| Y-71-39 | Younger Laboratory | Melvin Birch | 3/17/71 | Pydraul 540B, Lot OR 162446<br>Aroclor 5432 42%* | Oral LD-50<br>Acute skin absorption<br>minimal lethal dose<br>skin irritation<br>eye irritation<br>vapor inhalation |
| Y-71-40 | Younger Laboratory | Melvin Birch | 3/17/71 | MCS-1083, Lot OR 162444<br>Aroclor 5432 29%* | Oral LD-50<br>acute skin absorption<br>minimal lethal dose<br>skin irritation<br>eye irritation<br>vapor inhalation |
| Y-71-41 | Younger Laboratory | Melvin Birch | 3/17/71 | Pydraul 135A, Lot OR 162445<br>Aroclor 5432 27.6%* | Oral LD-50<br>acute skin absorption<br>minimal lethal dose<br>skin irritation<br>eye irritation<br>vapor inhalation |

* Percents shown for blends in which a polychlorinated biphenyl is a component.

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| Y-72-88 | Younger Laboratory | Melvin Birch | 5/4/72 | Triphenyl Phosphate<br>KB-01-3<br>PCB ? | Oral LD-50<br>Acute skin absorption<br>Minimal lethal dose<br>skin irritation<br>eye irritation |
| Y-72-246 | Younger Laboratory | Melvin Birch | 9/2/72 | MCS 1330, OR 198850-6<br>Hydrogenated Quaterphenyl 40%*<br>MCS 1248 3% * | Acute oral toxicity<br>acute skin absorption<br>minimal lethal dose<br>skin irritation<br>eye irritation |
| Y-73-14 | Younger Laboratory | Melvin Birch | 2/14/73 | MCS 1442, Lot OR 198737<br>PCB ? | acute single oral<br>minimal lethal dose<br>acute skin absorption<br>minimal lethal dose<br>skin irritation<br>eye irritation<br>vapor inhalation |
| Y-73-86 | Younger Laboratory | Melvin Birch | 5/31/73 | MCS 1432, Lot OR NBP 198756<br>PCB ? | acute single oral<br>minimal lethal dose<br>acute skin absorption<br>minimal lethal dose<br>skin irritation<br>eye irritation<br>vapor inhalation |

* Percents shown for blends in which a polychlorinated biphenyl is a component.

# SCIENTIFIC ASSOCIATES PYDRAUL STUDIES

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| M-28 | Scientific Associates | Fred Younger | 2/19/51 | Pydraul F-9 | M.L.D. (minimum lethal dose) New Zealand white rabbits |
| M-28 | Scientific Associates | Fred Younger | 4/17/51 | Pydraul F-9 | M.L.D. (minimum lethal dose) laboratory rats |
| SA-55-43 | Scientific Associates | Fred Younger | 7/13/55 | Pydraul 600 | Acute Oral LD-50<br>Skin Absorption<br>Skin Irritation<br>Eye Irritation<br>Vapor Inhalation |
| SA-55-43A | Scientific Associates | Fred Younger | 9/26/55 | Pydraul 600 | Acute Oral Toxicity<br>Oral LD-50 |
| SA-77 | Scientific Associates | Fred Younger | 9/13/54 | OS-57 | Acute Oral Toxicity<br>Toxicity by Skin Absorption<br>Skin Irritation<br>Ocular Irritation<br>Vapor Inhalation |
| SA-90 | Scientific Associates | Fred Younger | 2/1/55 | Pydraul F-9 | Acute Oral Toxicity<br>Skin Absorption<br>Skin Irritation<br>Eye Irritation<br>Vapor Inhalation |

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Byphenyl Product | Description |
|---|---|---|---|---|---|
| SA-91 | Scientific Associates | Fred Younger | 2/3/55 | OS-63 | Acute Oral Toxicity<br>Skin Absorption<br>Skin Irritation<br>Eye Irritation |
| | | EG&G BIONOMICS PYDRAUL STUDIES | | | |
| BN-77-410A | EG&G Bionomics | Joseph V. Sousa | March, 1978 | Pydraul 230C | Acute Toxicity |
| BN-77-410B | EG&G Bionomics | Joseph v. Sousa | March, 1978 | Pydraul 230C | Acute Toxicity |
| BN-77-410C | EG&G Bionomics | Gerald LeBlanc | March, 1978 | Pydraul 230C | Acute Toxicity |
| BN-77-412A | EG&G Bionomics | Joseph v. Sousa | March, 1978 | Pydraul MC | Acute Toxicity |
| BN-77-412B | EG&G Bionomics | Joseph V. Sousa | March, 1978 | Pydraul MC | Acute Toxicity |
| BN-77-412C | EG&G Bionomics | Gerald LeBlanc | March, 1978 | Pydraul MC | Acute Toxicity |
| BN-78-373(1)<br>BN-78-373(2) | EG&G Bionomics | Tom Heitmuller | September, 1978 | Triphenyl phosphate | Acute Toxicity to shrimp and minnows |

## KETTERING LABORATORY PYDRAUL STUDIES

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| K-55-0049 | Kettering | Joseph Treon<br>Frank Cleveland<br>Ralph Atchley | 7/5/55 | Pydraul | Toxicity of a mist generated by the asperation of Pydraul |
| K-45-0015 | Kettering | | | | |

## INDUSTRIAL BIO TEST LABORATORIES, INC.

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| BT 72-54 thru 57 | IBT | John Rice | 6/30/72 | TPP | 11-day Fish Toxicity Studies |
| BT-72-74 | IBT | Dale Fletcher | 1/17/73 | TPP | Oral Toxicity CD-50<br>Neurotoxicological Tests |

## BARNARD FREE-SKIN AND CANCER MEDICAL CENTER

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| W-45 | Barnard | | | Pydraul F-9 | |

YOUNGER LABORATORIES PYDRAUL STUDIES

| Study Number | Laboratory | Author | Completion Date | Polychlorinated Biphenyl Product | Description |
|---|---|---|---|---|---|
| Y-56-40 | Younger Laboratory | Fred Younger | 8/3/56 | Pydraul AC(05-67) Aroclor 50%* | Oral LD-50, skin irritation, lethal oral dose, eye irritation, skin absorption, vapor inhalation |
| Y-57-1 | Younger Laboratory | Fred Younger | 2/26/57 | Pydraul 625(0S-83) Aroclor 1260 50%* Pydraul 625(0S-81) Aroclor 1248 67.5%* Aroclor 1242 22.5%* | Oral LD-50 Lethal Dose Skin Irritation Eye Irritation vapor Inhalation |
| Y-58-4 | Younger Laboratory | Fred Younger | 2/22/58 | Pydraul A-200(0S-95) | Oral LD-50 Skin Absorption Skin Irritation Eye Irritation Vapor Inhalation |
| Y-58-29 | Younger Laboratory | Fred Younger | 10/20/58 | Pydraul A-200(0S-95) | Skin Absorption Skin Irritation |
| Y-58-31 | Younger Laboratory | Fred Younger | 9/29/58 | Pydraul 625 | Mist Exposure (Varying concentration) |
| Y-58-46 | Younger Laboratory | Fred Younger | 12/8/58 | Pydraul A-200(0S-95) | Toxicity of Thermal Decomposition Products |
| Y-63-11 | Younger Laboratory | Fred Younger | 3/4/63 | PYRANOL ~~Pydraul~~ 1470(GE) Aroclor 1260 60%* | Oral LD-50 Skin Absorption MLD Skin Irritation Eye Irritation Vapor Inhalation |

* Percents shown for blends in which a polychlorinated biphenyl is a component.

## PCB MONSANTO SPONSORED STUDIES

| | STUDY NUMBER | TITLE |
|---|---|---|
| | Y-56-40 | Toxicological Investigation of Pydraul AC (OS-67) |
| | Y-57-1 | Toxicological Investigation of OS-81, OS-83 |
| * | Y-57-3 | Toxicological Investigation of Santowax R. |
| | Y-57-22 | Toxicological Investigation of Aroclor 1270 Ammonia Reaction Product |
| | Y-58-4 | Toxicological Investigation of OS-95 |
| | Y-58-29 | Toxicological Investigation of OS-95 |
| | Y-58-31 | Toxicity of the Thermal Decomposition Products of Pydraul 625 |
| * | Y-60-49 | Toxicological Investigation of Santolube 830 |
| * | Y-61-34 | Toxicological Investigation of Sterox AWS 101 |
| | Y-62-34 | Toxicological Investigation of Aroclor 1242 |
| | Y-62-35 | Toxicological Investigation of Aroclor 1248 |
| | Y-62-36 | Toxicological Investigation of Aroclor 1254 |
| | Y-62-37 | Toxicological Investigation of Aroclor 1260 |
| | Y-62-38 | Toxicological Investigation of Aroclor 1262 |
| | Y-62-41 | Toxicological Investigation of Aroclor 1221 |
| | Y-62-42 | Toxicological Investigation of Aroclor 1268 |
| | Y-62-43 | Toxicological Investigation of Aroclor 2565 |
| | Y-62-44 | Toxicological Investigation of Aroclor 4465 |
| | Y-62-45 | Toxicological Investigation of Aroclor 5442 |

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| | Y-62-46 | Toxicological Investigation of 60% Chlorinated Terphenyl |
| | Y-62-48 | Toxicological Investigation of Benzal SD |
| | Y-62-52 | Toxicological Investigation of Aroclor 1232 |
| | Y-62-94 | Toxicological Investigation of MCS-177 |
| | Y-63-11 | Toxicological Investigation of Pyranol 1470 |
| | Y-63-12 | Toxicological Investigation of Inerteen PPO |
| * | Y-63-21 | Toxicological Investigation of MCS-198 |
| | Y-63-61 | Toxicological Investigation of Therminol 77 |
| | Y-63-88 | Toxicological Investigation of MCS-300 |
| | Y-64-7 | Toxicological Investigation of FH-145 |
| | Y-64-49 | Toxicological Investigation of MCS-295 |
| * | Y-64-74 | Toxicological Investigation Skydrol 500A |
| | Y-64-77 | Toxicological Investigation of FH-159 |
| | Y-64-91 | Toxicological Investigation of Pydraul 280 |
| | Y-64-133 | Toxicological Investigation of MCS 312 |
| * | Y-65-153 | Toxicological Investigation Hiboiler H230 |
| | Y-65-213 | Toxicological Investigation of MCS 395 |
| | Y-65-214 | Toxicological Investigation of MCS 404 |
| | Y-66-151 | Toxicological Investigation of MCS 90 |
| | Y-66-158 | Toxicological Investigation of Pydraul AC |
| | Y-66-159 | Toxicological Investigation of Pydraul F-9 |
| | Y-66-160 | Toxicological Investigation of Pydraul 135 |



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| | Y-66-161 | Toxicological Investigation of Pydraul 280 |
| | Y-66-162 | Toxicological Investigation of Pydraul 625 |
| | Y-66-163 | Toxicological Investigation of MCS 153 |
| | Y-66-164 | Toxicological Investigation of MCS 404 |
| | Y-67-100 | Toxicological Investigation of Pydraul 230 |
| | Y-67-105 | Toxicological Investigation of (SZ-140) Santicizer 1706 |
| | Y-68-46 I think This is 1-58-46 | Toxicity of Thermal Decomposition Products of OS-95 |
| | Y-68-64 | Toxicological Investigation of Aroclor 5460 |
| * | Y-68-65 | Toxicological Investigation of MCS 460 |
| | Y-68-87 | Toxicological Investigation of MCS 706 |
| | Y-68-127 | Toxicological Investigation of CH X 604 |
| | Y-68-133 | Toxicological Investigation of Fluorinated Aroclor 1254 |
| | Y-68-135 | Toxicological Investigation of Pydraul 312 (MCS-312) OR-116021 |
| | Y-69-41 | Toxicological Investigation of MCS 900 |
| | Y-69-42 | Toxicological Investigation of a Functional Fluid Formulation |
| | Y-69-50 | Toxicological Investigation of Santicizer 630 - Lot Number EL 9007 |
| | Y-69-53 | Toxicological Investigation of Fluorinated Aroclor 1254 (OR 16827) |
| | Y-69-54 | Toxicological Investigation of Brominated Aroclor 1221 (OR 16832) |
| | Y-69-57 | Toxicological Investigation of MCS 9001 |
| | Y-69-148 | Toxicological Investigation of Pydraul AC-a--Winter Grade 28 |
| | Y-69-149 | Toxicological Investigation of MCS 976, Pydraul AC-A |



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| Y-69-150 | Toxicological Investigation of MCS 975, Pydraul 625-A |
| Y-70-1 | Toxicological Investigation of Aroclor 5430 |
| Y-70-25 | Toxicological Investigation of Pydraul 281 - Lot QL-42 |
| Y-70-43 | Toxicological Investigation of MCS 1009 |
| Y-70-44 | Toxicological Investigation of MCS 1007 |
| Y-70-45 | Toxicological Investigation of MCS 999 |
| Y-70-74 | Toxicological Investigation of Aroclor 6062 - Lot QM 1004 |
| Y-70-86 | Toxicological Investigation of MCS 974 Batch 6-1 (Central Drumming, J.F. Queeny Plant) |
| Y-70-87 | Toxicological Investigation of MCS 1007 - Pydraul F-9A (Amendment 1) |
| Y-70-114 | Toxicological Investigation of Aroclor 6037 - MCS 1057 - 1 |
| Y-70-116 | Toxicological Investigation of MCS 1004 - Aroclor 4273 Lot Number: OR 151723-3 |
| Y-70-123 | Toxicological Investigation of Aroclor 6040 - Chlorinated Polyphenyl |
| Y-70-124 | Toxicological Investigation of: Aroclor 6050-- Chlorinated Polyphenyl |
| Y-70-125 | Toxicological Investigation of Aroclor 6070 - Chlorinated Polyphenyl |
| Y-70-126 | Toxicological Investigation Of: Aroclor 6090-- Chlorinated Polyphenyl |
| Y-71-14 | Toxicological Investigation of 0114 (10/16/70) |
| * Y-71-29 | Toxicological Investigation of Hydrogenated Quatraphenyl |
| Y-71-37 | Toxicological Investigation of Pydraul 150A - Lot OR 126439 |
| Y-71-38 | Toxicological Investigation of Pydraul 312A - Lot OR 162437 |
| Y-71-39 | Toxicological Investigation of Pydraul 540 B - Lot OR 162446 |



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| | Y-71-40 | Toxicological Investigation of MCS 1083 - Lot OR 162444 |
| | Y-71-41 | Toxicological Investigation of Pydraul 135A - Lot OR 162445 |
| | Y-71-57 | Toxicological Investigation of Aroclor 5468 - Lot Number 164487- B |
| * | Y-71-88 | Toxicological Investigation of HB-30; XS - 362 |
| | Y-71-105 | Toxicological Investigation of Decachlorobiphenyl - Aroclor 1272 - Lot: OR 179021 |
| | Y-71-187 | Toxicological Investigation of MCS 1230 German Mine Fluid - Lot: OR 162483 |
| | Y-71-189 | Toxicological Investigation of MCS 1228 German Mine Fluid - Lot: OR 162483 |
| | Y-72-43 | Toxicological Investigation of Therminol 44 - Lot: QET 179076 |
| * | Y-72-88 | Toxicological Investigation of Triphenyl Phosphate |
| | Y-72-145 | Toxicological Investigation of Therminol 77 (Used) from TRW Systems - TSR 43/72 |
| | Y-72-146 | Toxicological Investigation of Fluidica Alkylate - Lot: TSR 35/72 |
| * | Y-72-246 | Toxicological Investigation of MCS 1330 |
| * | Y-72-249 | Toxicological Investigation of Therminol 66 |
| * | Y-73-14 | Toxicological Investigation of MCS 1442 |
| | Y-73-86 | Toxicological Investigation of MCS 1432 - Lot: NBP 198756 |
| | Y-73-158 | Toxicological Investigation of MCS 1489 - (RC) MIC 231499 |
| * | Y-73-273 | Toxicological Investigation of Santowax Q |
| | Y-73-285 | Toxicological Investigation of MCS 1039 |
| * | Y-74-27 | Toxicological Investigation of MCS 1612 |
| | Y-74-45 through 55 | Animal Feeding Studies for Tissue Residue Analyses |



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|---|---|---|
| * | Y-74-98 | Toxicological Investigation of MCS 1626 |
| | Y-75-252 | Toxicological Investigation of Aroclor 1016 - Lot: KE 01-701 |
| * | Y-76-328 | Toxicological Investigation of Santovac 6 |
| * | Y-76-354 | Toxicological Investigation of Light Hi Boiler |
| * | Y-77-72 | Toxicity Studies on Diphenyl Oxide |
| * | Y-77-123 | Toxicity Studies on Coolanol 15 |
| | Y-79-67 | Toxicological Study on Santicizer 558 - Lot: RHM 1282588 |
| | BT-62-4 | Subacute Dermal Toxicity of Aroclor 1268, 4465, 1254, 1248, 1242, 1221 |
| | BT-67-12 | 90-Day Subacute Oral Toxicity of Aroclor 5460 - Albino Rats |
| | BT-67-12A | Egg Hatchability and Chick Viability Study - Aroclor 5460 - White Leghorn Chickens |
| | BT-67-12B | Egg Hatchability and Chick Viability Study - Aroclor 5460 - White Leghorn Chickens |
| | BT-69-33 | Four-Day Fish Toxicity Studies on Seven Materials |
| * | BT-70-11 | Toxicity Studies on HB-40 |
| | BT-70-16 | Toxicity, Reproduction and Residue Study on Aroclor 1242, 1254, 1260 in White Leghorn Chickens |
| | BT-71-1 | Acute Toxicity Studies with Aroclor 1221, 5442, and MCS 1016 |
| | BT-71-11 | Meat Residue Study with CP 41845 Technical in Crossbred Swine |
| | BT-71-67 | Toxicity, Reproduction and Residue Study with Aroclor 1242, Lo AK-255 in White Leghorn Chickens |
| | BT-71-68 | Three-Generation Reproduction Study with Aroclor 1242, 1254, and 1260 in Albino Rats |
| | BT-71-69 | Two- Year Chronic Oral Toxicity Study with Aroclor 1242, 1254 and 1260 in Albino Rats |
| | BT-71-69A | Two- Year Chronic Oral Toxicity Study with Aroclor 1254 - Histopathological Evaluation of Additional Liver Sections |



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| BT-71-70 | Two- Year Chronic Oral Toxicity Study with Aroclor 1242, 1254, and 1260 in Beagle Dogs |
| BT-71-71 | Teratogenic Study with Aroclor 1242 in Albino Rats |
| BT-71-72 | Teratogenic Study with Aroclor 1254 in Albino Rats |
| BT-71-73 | Teratogenic Study with Aroclor 1260 in Albino Rats |
| * BT-72-16 | 90-Day Subacute oral Toxicity Study with Terminol 55 Heat Transfer Liquid in Albino Rats |
| * BT-72-17 | 30-Day Feeding Study with Therminol 55 in White Leghorn Chickens |
| * BT-72-18 | Toxicity, Reproduction and Residue Study with Terminol 55 in White Leghorn Chickens |
| * BT-72-19 | 30-Day Feeding Study with Terminol 66 in White Leghorn Chickens |
| * BT-72-20 | Toxicity, Reproduction and Residue Study with Therminol 66 in White Leghorn Chickens |
| * BT-72-21 | 10-Week Subacute Oral Toxicity Study with Terminol 66 Heat Transfer Liquid in Albino Rats |
| BT-72-32 | Results of Four-Day Static Fish Toxicity Studies Rainbow Trout and Bluegills |
| * BT-72-33 | Four-Day Static Fish Toxicity Studies with Therminol 55 in Rainbow Trout and Bluegills |
| * BT-72-34 | Four-Day Static Fish Toxicity Studies with Therminol 66 in Rainbow Trout and Bluegills |
| BT-72-35 | Four-Day Static Fish Toxicity Studies with Therminol 77 in Rainbow Trout and Bluegills |
| BT-72-36 | Four-Day Static Fish Toxicity Studies with Therminol 88 in Rainbow Trout and Bluegills |
| * BT-72-54-57 | Results of Four-Day Static Fish Toxicity Studies Rainbow Trout and Bluegills |
| BT-72-59 | Results of Four-Day Static Fish Toxicity Studies Rainbow Trout |
| * BT-72-60-63 | Results of Four-Day Static Fish Toxicity Studies Rainbow Trout |



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| BT-72-64 | Results of Four-Day Static Fish Toxicity Studies Rainbow Trout |
| * BT-72-74 | Neurotoxicity Study with TPP in Chickens |
| BT-72-82 | Results of Four-Day Static Fish Toxicity Studies Rainbow Trout and Bluegills |
| BT-72-103 | Four-Day Fish Toxicity Studies with Aroclor 1242, 1254, and 1260 in Bluegills and Channel Catfish |
| BT-72-129 | Four-Day Static Fish Toxicity Studies with Aroclor 1221, 5432, 5442, 5460 and MCS 1016 in Bluegills and Channel Catfish |
| BT-72-130 | 90-Day Subacute Oral Toxicity Study with Aroclor 5432 in Beagle Dogs |
| BT-72-131 | Ninety-Day Subacute Oral Toxicity Study with Aroclor 1221 in Beagle Dogs |
| BT-72-132 | Ninety-Day Subacute Oral Toxicity Study with Aroclor 5442 in Beagle Dogs |
| BT-72-133 | Ninety-Day Subacute Oral Toxicity Study with MCS 1016 in Beagle Dogs |
| BT-72-134 | Mutagenic Study with Aroclor 1242 in Albino Mice |
| BT-72-135 | Mutagenic Study with Aroclor 1254, 1260 and 1242 in Albino Mice |
| BT-72-136 | |
| BT-72-137 | Ninety-Day Subacute Oral Toxicity Study with Aroclor 5442 in Albino Rats |
| BT-72-138 | Toxicity, Reproduction and Residue Study with MCS 1016 in White Leghorn Chickens |
| BT-72-139 | Toxicity, Reproduction and Residue Study with Aroclor 1221 in White Leghorn Chickens |
| BT-73-70 | Toxicity and Reproduction Study with Aroclor 1242 in White Leghorn Chickens |
| * BT-74-55 | Results of Four-Day Static Fish Toxicity Screen Rainbow Trout and Bluegills |
| BT-74-69 | Results of Four-Day Static Fish Toxicity Screen Rainbow Trout and Bluegills |
| * BT-74-73 | Acute Aerosol Inhalation Toxicity Study with Santosol 100 in Rats |



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| * BT-74-74 | Acute Aerosol Inhalation Toxicity Study with Santosol 340 in Rats |
| * BT-74-82 | 30-Day Pilot Aersol Inhalation Toxicity Study with Santosol 340 in Rats |
| SA-1 | Chloracne Producing Potential of Santopoid 33 and Halowax 1020 |
| SA-3 | The Chloracne Producing Potential of Aroclor 5460 |
| SA-15 | The Acute Oral Toxicity ($LD_{50}$) of Aroclor 1254 for Rats |
| SA-19 | The Acute Oral Toxicity ($LD_{50}$) of Aroclor 1242 for Rats |
| SA-20 | (A) The Acute Oral Toxicity ($LD_{50}$) of Functional Fluid OS-54 for Rats (B) Inhalation of OS-54 Fumes by Rabbits Over Period of Three Days (C) Ocular Irritation Produced by OS-54 |
| SA-55-43 | Toxicological Investigation of Pydraul 600 |
| SA-55-43A | Toxicological Investigation of Pydraul 600 |
| SA-77 | The Toxicological Investigation of Fluid OS-57 |
| SA-90 | Toxicological Investigation of Pydraul F-9 (FH-103) |
| SA-91 | Toxicological Investigation of Fluid OS-63 |
| M-28 | The Minimum Lethal Dose of Pydraul F-9 When Fed Orally to New Zealand White Rabbits |
| M-28 | The Minimum Lethal Dose of Pydraul F-9 When Fed Orally to Laboratory Rats |
| K-15 | Report on the Toxicity of Triphenyl Phosphate |
| * K-48 | The Cumulative Toxicity of HB-40 |
| K-49 | The Toxicity of a Mist Generated by The Aspiration of Pydraul |
| K-50 | The Toxicity of the Vapor of Aroclor 1242 and of Aroclor 1254 |
| BN-77-410A | Acute Toxicity of Pydraul 230A (BN-77-410A) to Rainbow Trout (Salmo gairdneri) |
| * BN-77-410B | Acute Toxicity of Pydraul 230C to Fathead Minnow (Pimephales promelas) |



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| BN-77-410C | Acute Toxicity of Pydraul 230C to the Water Flea (Caphnia magna4) |
| BN-77-412A | Acute Toxicity of Pydraul MC (BN-77-412A) to Rainbow Trout (Salmo gairdneri) |
| BN-77-412B | Acute Toxicity of Pydraul MC (BN-77-412B) to Fathead Minnow (Pimephales promelas) |
| BN-77-412C | Acute Toxicity of Pydraul MC to the Water Flea (Daphnia magna) |
| * BN-78-373 | Acute Toxicity of Triphenyl Phosphate to Mysid Shrimp (Mysidopsio babia) |
| * BN-79-093 | Toxicity of WCM to Fresh Water Alga (Selenastrum capricornutum) |
| * BN-79-137 | Toxicity of Therminol 66 to Fresh Water Alga (Selenastrum capicornutum) |
| * BO-79-204 | Toxicity of Therminol VPI to the Freshwater Alga Selenastrum Capricornutum |
| * BW-78-3-082 | Acute Toxicity of Pydraul MC to the Water Flea (Daphnia magna) |
| MO-77-470-516 | Biodegradability of Process Fluids and related Materials |
| MO-77-552-595 | Biodegradability of Dielectric Fluids and Components |
| * MO-77-617 | Biodegradation Tiding of Halowax 1014 |
| MO-77-625 | Comparison of Environmental Properties of Cereclor 42 and Santosol 340 |
| * ML-78-323 | Toxicity Studies on MCS 2046 |
| * LF-78-168 | Salmonella Mutagenicity Assay of Diphenyl Oxide |
| * AC-75-SS-9 (mo-11-546-mo11614) | Biodegrability of Phosphate Esters |
| *BIO-77-327 | Mutagenicity Evaluation of BIO-77-327 CP 75052 |
| BIO-77-328 | Mutagenicity Evaluation of BIO-77-328 CP 2321 SR |
| * BO-78-83 | Mutagenicity Evaluation of Triphenyl Phosphate BO-78-83 in the Ames Salmonilla/ Micisome Plate Test |
| * BO-78-87 | Mutagenicity Evaluation of Triphenyl Phosphate BO-78-87 in the Mouse Lymphoma Forward Mutation Assay |



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| * AB-78-116 | Acute Toxicity of Triphenyl Phosphate to (Daphnia magna) |
| * AB-78-123 | Acute Toxicity of Technical Glyphosate to Bluegills Sunfish (Lepomia macrochirus) |
| AB-79-205 | Acute Toxicity of Therminol VPI (AB-79-1384355-1d to Rainbow Trout (Salmo gairdneri) |
| * AB-79-095 | Acute Toxicity of WCM to Fathead Minnows (Pimephales promelas) |
| * AB-79-096 | Acute Toxicity of WCM to (Daphnia magna) |
| * AB-79-135 | Acute Toxicity of Therminol 66 to Fathead Minnows (Pimephales promelas) |
| * AB-79-136 | Acute Toxicity of Therminol 66 to (Daphnia magna) |
| * AB-79-138 | Acute Toxicity of Santosol 100 to Rainbow Trout (Salmo gairdneri) |
| * AB-79-205 | Acute Toxicity of Therminal VPI to Fathead Minnows |
| * DA-78-184 | Salmonella Mutagenicity Assay of HB-40 |
| * SH-72-10 | Evaluation of Potential Hazards by Dermal Contact |
| * SH-73-19 | Evaluation of Potential Hazards by Dermal Contact |
| Levinskas 10/14/81 | Toxicity of Aroclor Products 1242, 1254 and 1260 to the Liver of Albino Rats |
| Levinskas 10/14/81 | A Review and Evaluation of Carcinogenity Studies in Mice and Rats and Mutagenicity Studies with PCBs |
| Tucker Litschgimees | Migration of PCBs in Soil Induced by Percolating Water |
| O. Hicks V. Seager S. Tucker | Biodegradation of PCBs |

*These studies have been added to Monsanto's list.



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| Study Number | Laboratory | Author | Commencement Date | Completion Date | Polychlorinated Biphenyl | Description |
|---|---|---|---|---|---|---|
| BT-72-0129 | IBT | John Hamlin | 1971 | 1/12/72 | Aroclor 1016<br>Aroclor 1221<br>Aroclor 5432<br>Aroclor 5442<br>Aroclor 5460 | 196 Hr.<br>LC-50 |
| ✓ BT-71-0001 | IBT | Carmen Mastri | 1971 | 3/25/71 | Aroclor 1016<br>Aroclor 1221<br>Aroclor 5442 | Oral LD-50<br>Dermal LD-50<br>Eye Irritation<br>Skin Irritation<br>Vapor Irritation |
| Y-75-0252 | Younger | Melvin D. Birch | 1975 | 10/22/75 | Aroclor 1016 | Oral LD-50<br>Dermal LD-50<br>Eye Irritation<br>Skin Irritation |
| ✓ BT-72-0137 | IBT | Philip S. Smith | 1972 | 4/28/72 | Aroclor 1016<br>Aroclor 1221<br>Aroclor 5432<br>Aroclor 5442 | 90 day subacute oral toxicity study in rats |
| BT-72-0138 | IBT | Dale Fletcher | 1972 | 6/20/72 | Aroclor 1016 | Toxicity reproduction and residue study in white leghorn chickens |
| BT-72-0139 | IBT | Dale Fletcher | 1972 | 6/20/72 | Aroclor 1221 | Toxicity reproduction and residue study in white leghorn chickens |



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| BT-72-0133 | IBT | Bruce R. Burtner | 1972 | 12/31/72 | Aroclor 1016 | 90 day subacute oral toxicity study in dogs |
| BT-72-131 | IBT | Unknown | 1971 | 12/30/71 | Aroclor 1221 | 90 day subacute oral toxicity study in beagle dogs |
| Y-74-0054 | Younger | Unknown | 1974 | 7/10/74 | Aroclor 1016 | Tissue residue accumulation and depletion study in rats |
| ✓ Y-62-0041 | Younger | Fred M. Younger | 1962 | 6/13/62 | Aroclor 1221 | Oral LD-50 Dermal LD-50 |
| BT-62-0004 | IBT | Richard J. Palazzolo | 1963 | 3/28/63<br>3/27/63<br>3/4/63<br>3/29/63<br>3/28/63<br>5/17/63<br>3/28/63 | Aroclor 1221<br>Aroclor 1242<br>Aroclor 1248<br>Aroclor 1254<br>Aroclor 1268<br>Aroclor 4465<br>Aroclor 5460 | Subacute dermal toxicity |
| ✓ Y-62-0052 | Younger | Fred M. Younger | 1962 | 6/6/62 | Aroclor 1232 | Oral LD-50 Dermal LD-50 |
| Y-62-0034 | Younger | Fred M. Younger | 1962 | 6/19/62 | Aroclor 1242 | Oral LD-50 Dermal LD-50 |
| ✓ BT-69-0033 | IBT | Carmen Mastri | 1969 | 6/13/69 | Aroclor 1242<br>Aroclor 1254<br>Aroclor 1260<br>Aroclor 5460 | 96 HR. LC-50 |

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| BT-72-0082 | IBT | John W. Goode | 1972 | 1972 | Aroclor 1242 | 96 HR.LC-50 |
| BT-72-0103 | IBT | Kenneth Ebbens | 1972 | 11/17/72 | Aroclor 1242<br>Aroclor 1254<br>Aroclor 1260 | 96 HR. LC-50 |
| ✓SA-0019 | Scientific Associates | Fred M. Younger | 1953 | 12/11/53 | Aroclor 1242 | Oral LD-50 |
| ✓BT-70-0016 | IBT | James L. Stephens | 1970 | 6/4/70 | Aroclor 1242<br>Aroclor 1254<br>Aroclor 1260 | Toxicity reproduction and residue study in white leghorn chickens |
| ✓BT-71-0067 | IBT | Dale Fletcher | 1971 | 6/15/71 | Aroclor 1242 | Toxicity reproduction and residue study in white leghorn chickens |
| BT-71-0068 | IBT | Sandra Haley | 1970 | 11/1/71<br>11/1/71<br>11/4/71 | Aroclor 1242<br>Aroclor 1254<br>Aroclor 1260 | Three generation reproduction study in albino rats |
| BT-71-0069 | IBT | Philip S. Smith | 1970 | 11/12/71 | Aroclor 1242<br>Aroclor 1254<br>Aroclor 1260 | Two year chronic oral toxicity in albino rats |
| ✓BT-71-0069A | IBT | D.E. Gordon | | 3/24/75 | Aroclor 1242<br>Aroclor 1254<br>Aroclor 1260 | Re-evaluation of original report dated 11/12/71 |

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| BT-71-0070 | IBT | Bruce R. Burtner | 1970 | 11/1/71 | Aroclor 1242<br>Aroclor 1254<br>Aroclor 1260 | Two year chronic oral toxicity in beagle dogs |
| ✓BT-71-0071 | IBT | James B. Plank | 1971 | 9/8/71 | Aroclor 1242 | Teratogenic study in albino rats |
| BT-71-0072 | IBT | James B. Plank | 1971 | 9/8/71 | Aroclor 1254 | Teratogenic study in albino rats |
| BT-71-0073 | IBT | James B. Plank | 1971 | 9/9/71 | Aroclor 1260 | Teratogenic study in albino rats |
| ✓BT-72-0134 | IBT | Dennis Arnold | 1971 | 1/13/72 | Aroclor 1242 | Mutagenic study in mice |
| BT-73-0070 | IBT | Dale Fletcher | 1973 | 1973 | Aroclor 1242 | Toxicity and reproduction study in white leghorn chickens |
| K-54-0050 | Kettering | Joseph F. Trevon<br>Frank P. Cleveland<br>John Cappel<br>Frederic E. Shaffer<br>Ralph W. Atchley<br>John P. Torbeck | 1955 | 6/22/55 | Aroclor 1242<br>Aroclor 1254 | Inhalation exposure of cats, guinea pigs, mice, rabbits and rats |
| Y-74-0055 | Younger | Melvin D. Birch | 1973 | 6/8/74 | Aroclor 1016<br>Aroclor 1242 | Tissue residue accumulation and depletion study in rats |



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| Y-62-0035 | Younger | Unknown | 1962 | 6/19/62 | Aroclor 1248 | Oral LD-50<br>Dermal LD-50 |
| Y-68-0127 | Younger | Melvin D. Birch | 1968 | 1/13/69 | Aroclor 1248 | Oral LD-50<br>Dermal LD-50<br>Eye irritation<br>Skin irritation |
| Y-62-0036 | Younger | Fred M. Younger | 1962 | 6/25/62 | Aroclor 1254 | Oral LD-50<br>Dermal LD-50 |
| SA-0015 | Scientific Associates | Fred M. Younger | 1953 | 11/10/53 | Aroclor 1254 | Oral LD-50 |
| BT-72-0135 | IBT | Dennis Arnold | 1971 | 1/13/72 | Aroclor 1254 | Mutagenic study in mice |
| Y-71-0105 | Younger | Melvin D. Birch | 1971 | 6/28/71 | Aroclor 1272 | Oral LD-50<br>Dermal LD-50<br>Eye irritation<br>Skin irritation |
| Y-62-0037 | Younger | Fred M. Younger | 1962 | 6/25/62 | Aroclor 1260 | Oral LD-50<br>Dermal LD-50 |
| BT-71-0136 | IBT | Dennis Arnold | 1971 | 1/13/72 | Aroclor 1260 | Mutagenic study in mice |
| Y-62-0038 | Younger | Fred M. Younger | 1962 | 6/25/62 | Aroclor 1262 | Oral LD-50<br>Dermal LD-50 |
| Y-62-0042 | Younger | Fred M. Younger | 1962 | 6/13/62 | Aroclor 1268 | Oral LD-50<br>Dermal LD-50 |

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| Y-57-0022 | Younger | Fred M. Younger | 1957 | 7/9/57 | Aroclor 1270 | Oral LD-50<br>Eye irritation<br>Skin irritation |
| _____ | Monsanto | William Gaffey<br>Ferdinand Meyer<br>Judith Zack | 1976 | Incomplete | Various | Mortality study of some PCB production workers |
| _____ | Harvard Medical School | C. E. Drinker | 1937 | 1937 | Aroclor 1268 | Inhalation studies on rats |
| LOOK IN AROCLOR 5460 FOR ANOTHER BERNARD STUDY | Barnard Free Skin & Cancer Hospital | L. K. Halpern | 1949 | 1949 | Aroclor 1254 ~~Aroclor~~ | Human patch study |
| _____ | Litton Bionetics | P. E. Berteau | 4/4/77 | Incomplete | Aroclor 1254 | Reproduction study in rhesus monkeys |
| BT-72-0132 | IBT | Bruce R. Burtner | 1971 | 1/31/72 | Aroclor 5442 | 90 day subacute oral toxicity study in dogs |

Drinker?