**APPENDIX 2-4. Glyphosate Studies Submitted to US EPA (OPPIN), by PC Code**

**Bibliography, PC code 103601**

**71-1       Avian Single Dose Oral Toxicity**

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**72-2       Acute Toxicity to Freshwater Invertebrates**

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**72-3       Acute Toxicity to Estuarine/Marine Organisms**

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**72-4       Fish Early Life Stage/Aquatic Invertebrate Life Cycle Study**

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**81-2       Acute dermal toxicity in rabbits or rats**

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**81-3       Acute inhalation toxicity in rats**

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**81-4       Primary eye irritation in rabbits**

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**81-5       Primary dermal irritation**

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**81-6       Dermal sensitization**

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**82-1       Subchronic Oral Toxicity: 90-Day Study**

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**82-2       21-day dermal-rabbit/rat**

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**82-3       90-day dermal-rodent**

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**82-4       90-day inhal.-rat**

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**83-1       Chronic Toxicity**

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**83-2       Oncogenicity**

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**83-3       Teratogenicity -- 2 Species**

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**83-4       2-generation repro.-rat**

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**84-2       Interaction with Gonadal DNA**

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**85-1       General metabolism**

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**141-4       Honey Bee Subacute Dietary Toxicity**

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**161-3       Photodegradation-soil**

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**162-1       Aerobic soil metabolism**

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| **MRID** | **Citation Reference** |
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**164-1       Terrestrial field dissipation**

|  |  |
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**164-2       Aquatic field dissipation**

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**165-0       Accumulation Studies -- General**

|  |  |
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|  |  |
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**171-4C       Magnitude of the Residue [by commodity]**

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| **MRID** | **Citation Reference** |
|  |  |
| 39381 | Kramer, R.M.; Arras, D.D.; Beasley, R.K.; et al. (1975) Final Re- port on CP 67573 Residue and Metabolism: Agricultural Research Report No. 372. (Unpublished study received Sep 25, 1975 under 6G1679; prepared in cooperation with Washington State Univ. and others, submitted by Monsanto Co., Washington, D.C.; CDL: 095355-A) |

**171-4A2       Nature of the Residue in Plants**

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| **MRID** | **Citation Reference** |
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**171-4A3       Nature of the Residue in Livestock**

|  |  |
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|  |  |
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**830.1550       Product Identity and composition**

|  |  |
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| **MRID** | **Citation Reference** |
|  |  |
| 46517201 | Mannion, R. (2005) 90-Day Response to Sodium Acifluorfen Product Specific Data Call-In. Project Number: R/D/NO/1658. Unpublished study prepared by Monsanto Company. 31 p. |

**830.1600       Description of materials used to produce the product**

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| **MRID** | **Citation Reference** |
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**830.1650       Description of formulation process**

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| **MRID** | **Citation Reference** |
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**830.1670       Discussion of formation of impurities**

|  |  |
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| **MRID** | **Citation Reference** |
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**830.1750       Certified limits**

|  |  |
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| **MRID** | **Citation Reference** |
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| 46517201 | Mannion, R. (2005) 90-Day Response to Sodium Acifluorfen Product Specific Data Call-In. Project Number: R/D/NO/1658. Unpublished study prepared by Monsanto Company. 31 p. |

**830.1800       Enforcement analytical method**

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| **MRID** | **Citation Reference** |
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**830.6302       Color**

|  |  |
| --- | --- |
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**830.6303       Physical state**

|  |  |
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**830.6304       Odor**

|  |  |
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| **MRID** | **Citation Reference** |
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**830.6317       Storage stability**

|  |  |
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| **MRID** | **Citation Reference** |
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| 46517201 | Mannion, R. (2005) 90-Day Response to Sodium Acifluorfen Product Specific Data Call-In. Project Number: R/D/NO/1658. Unpublished study prepared by Monsanto Company. 31 p. |

**830.6320       Corrosion characteristics**

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| **MRID** | **Citation Reference** |
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**830.7000       pH**

|  |  |
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**830.7100       Viscosity**

|  |  |
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**830.7300       Density/relative density**

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| **MRID** | **Citation Reference** |
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**850.1010       Aquatic invertebrate acute toxicity, test, freshwater daphnids**

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**850.1075       Fish acute toxicity test, freshwater and marine**

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**870.1100       Acute oral toxicity**

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**870.1200       Acute dermal toxicity**

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**870.1300       Acute inhalation toxicity**

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**870.2400       Acute eye irritation**

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**870.2500       Acute dermal irritation**

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**870.1300       Acute inhalation toxicity**

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**870.2500       Acute dermal irritation**

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**81-2       Acute dermal toxicity in rabbits or rats**

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**81-5       Primary dermal irritation**

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**81-6       Dermal sensitization**

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**870.1100       Acute oral toxicity**

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**870.1200       Acute dermal toxicity**

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**870.1300       Acute inhalation toxicity**

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**870.2400       Acute eye irritation**

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**870.2500       Acute dermal irritation**

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**870.2600       Skin sensitization**

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**870.1200       Acute dermal toxicity**

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**870.1300       Acute inhalation toxicity**

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**870.2400       Acute eye irritation**

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**870.2500       Acute dermal irritation**

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**870.2600       Skin sensitization**

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**81-1       Acute oral toxicity in rats**

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**81-2       Acute dermal toxicity in rabbits or rats**

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**81-3       Acute inhalation toxicity in rats**

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**81-4       Primary eye irritation in rabbits**

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**81-5       Primary dermal irritation**

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**870.1200       Acute dermal toxicity**

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**81-1       Acute oral toxicity in rats**

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**81-2       Acute dermal toxicity in rabbits or rats**

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**81-3       Acute inhalation toxicity in rats**

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**81-4       Primary eye irritation in rabbits**

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**81-5       Primary dermal irritation**

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**81-8       Acute neurotoxicity screen study in rats**

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**82-1       Subchronic Oral Toxicity: 90-Day Study**

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**82-2       21-day dermal-rabbit/rat**

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**82-4       90-day inhal.-rat**

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**82-7       Subchronic Neurotoxicity**

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**83-1       Chronic Toxicity**

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| **MRID** | **Citation Reference** |
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**83-4       2-generation repro.-rat**

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**83-5       Dietary: Combined Chronic Toxicity/Oncogenicity Studies**

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**84-2       Interaction with Gonadal DNA**

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**85-1       General metabolism**

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**164-2       Aquatic field dissipation**

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**165-0       Accumulation Studies -- General**

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**171-4C       Magnitude of the Residue [by commodity]**

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**171-4A3       Nature of the Residue in Livestock**

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**850.1025       Oyster acute toxicity test (shell deposition)**

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**850.1035       Mysid acute toxicity test**

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**850.1045       Penaeid acute toxicity test**

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**850.1055       Bivalve acute toxicity test (embryo larval)**

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**850.2100       Avian acute oral toxicity test**

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**870.1100       Acute oral toxicity**

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**870.1200       Acute dermal toxicity**

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**870.1300       Acute inhalation toxicity**

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**870.2400       Acute eye irritation**

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**870.2500       Acute dermal irritation**

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**870.2600       Skin sensitization**

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**870.3100       90-Day oral toxicity in rodents**

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**870.4200       Carcinogenicity**

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**870.4300       Combined chronic toxicity/carcinogenicity**

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**870.7485       Metabolism and pharmacokinetics**

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**890.1100       Amphibian Metamorphosis (Frog)**

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**890.1150       Androgen Receptor Binding (Rat Prostate)**

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**890.1300       Estrogen Receptor Transcriptional Activation (Human Cell Line HeLa-9903)**

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**890.1350       Fish Short-Term Reproduction**

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**890.1400       Hershberger (Rat)**

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| **MRID** | **Citation Reference** |
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| 48142001 | Joint Glyphosate Task Force, LLC (2010) OSRI Rationale: Glyphosate: EDSP Order Numbers: EDSP-417300-229, 230, 232, 240, 241, 244, 246, 247, 248: Glyphosate: A Comprehensive Review and Evaluation of Other Scientifically Relevant Information (OSRI) that Addresses the Requirements for Tier 1 Screening Under the Endocrine Disruptor Screening Program. Unpublished study prepared by Joint Glyphosate Task Force, LLC. 97 p. |

**890.1450       Female Pubertal (Rat)**

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| **MRID** | **Citation Reference** |
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**890.1500       Male Pubertal (Rat)**

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| **MRID** | **Citation Reference** |
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| 48142001 | Joint Glyphosate Task Force, LLC (2010) OSRI Rationale: Glyphosate: EDSP Order Numbers: EDSP-417300-229, 230, 232, 240, 241, 244, 246, 247, 248: Glyphosate: A Comprehensive Review and Evaluation of Other Scientifically Relevant Information (OSRI) that Addresses the Requirements for Tier 1 Screening Under the Endocrine Disruptor Screening Program. Unpublished study prepared by Joint Glyphosate Task Force, LLC. 97 p. |

**890.1550       Steroidogenesis (Human Cell Line- H295R)**

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| 48142001 | Joint Glyphosate Task Force, LLC (2010) OSRI Rationale: Glyphosate: EDSP Order Numbers: EDSP-417300-229, 230, 232, 240, 241, 244, 246, 247, 248: Glyphosate: A Comprehensive Review and Evaluation of Other Scientifically Relevant Information (OSRI) that Addresses the Requirements for Tier 1 Screening Under the Endocrine Disruptor Screening Program. Unpublished study prepared by Joint Glyphosate Task Force, LLC. 97 p. |

**890.1600       Uterotrophic (Rat)**

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**890.1400       Hershberger (Rat)**

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| **MRID** | **Citation Reference** |
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| 48617001 | Stump, D. (2012) A Hershberger Assay of Glyphosate Administered Orally in Peripubertal Orchidoepididymectomized Rats. Project Number: WIL/843003, WI/2011/0271/OCR. Unpublished study prepared by WIL Research Laboratories, Inc. 450p. |
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**890.1600       Uterotrophic (Rat)**

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**890.1350       Fish Short-Term Reproduction**

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**890.1500       Male Pubertal (Rat)**

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**890.1450       Female Pubertal (Rat)**

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| **MRID** | **Citation Reference** |
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**Non-Guideline Study**

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