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

**Bibliography, PC code 103601**

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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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**82-3       90-day dermal-rodent**

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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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| 38907 | Monsanto Company (1973) ?Residue Data for Roundup in Soil|. (Un- published study received Jan 31, 1977 under 524-308; CDL: 095786-J)  |

**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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| **MRID** | **Citation Reference** |
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| 108173 | Monsanto Co. (1978) Residue Studies for Use of Roundup Herbicide in Aquatic Situations. (Compilation; unpublished study received Dec 27, 1978 under 524-308; CDL:097760-A; 097761; 097762)  |

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

|  |  |
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| **MRID** | **Citation Reference** |
|  |  |
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**830.1550       Product Identity and composition**

|  |  |
| --- | --- |
| **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. |

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

|  |  |
| --- | --- |
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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**

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

|  |  |
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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. |

**830.1800       Enforcement analytical method**

|  |  |
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**830.6302       Color**

|  |  |
| --- | --- |
| **MRID** | **Citation Reference** |
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**830.6303       Physical state**

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| **MRID** | **Citation Reference** |
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**830.6304       Odor**

|  |  |
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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. |

**830.6317       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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| 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. |

**830.7000       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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| 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. |

**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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| **MRID** | **Citation Reference** |
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| 46873601 | Sutherland, C.; Kendall, T.; Kruegar, H. (2006) Glyphosate-Cosmo-Flux-Coca Mix: A 96-Hour Static-Renewal Acute Toxicity Test with the African Clawed-Frog Tadpole (Xenopus laevis): Final Report. Project Number: 628A/101. Unpublished study prepared by Wildlife International, Ltd. 42 p. |
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**870.1100       Acute oral toxicity**

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| **MRID** | **Citation Reference** |
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| 46006503 | Moore, G. (2003) Acute Oral Toxicity Up And Down Procedure in Rats: Chemsico Herbicide Concentrate DT. Project Number: 13183, P320/UDP. Unpublished study prepared by Product Safety Labs. 16 p. |
| 46009104 | Moore, G. (2003) Acute Oral Toxicity Up and Down Procedure in Rats: Nufarm NUP 3G 02 Herbicide. Project Number: 13033, P320. Unpublished study prepared by Product Safety Labs; Food Products Laboratory; Silliker Laboratories. 15 p. |
| 46078502 | Bonnette, K. (2002) An Acute Oral Toxicity Study in Rats with MON 79188: Final Report. Project Number: 3044/909, SB/2002/120, 1618. Unpublished study prepared by Springborn Laboratories, Inc. 22 p. |
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| 46517602 | Smedley, J. (2005) An Acute Oral Toxicity Study in Rats with MON 79799 (Up/Down Study Design): Amended Final Report. Project Number: EUF00037, SB/2004/118, RD/1657. Unpublished study prepared by Charles River Laboratories, Inc. 25 p. |
| 46550703 | Merkel, D. (2005) Acute Oral Toxicity Up and Down Procedure in Rats: S-10491 Tox# T-345. Project Number: 16860, P320/UDP. Unpublished study prepared by Product Safety Laboratories. 14 p. |
| 46783403 | Moore, G. (2005) Acute Oral Toxicity Up and Down Procedure in Rats: Glyphosate 53.8% Unloaded. Project Number: 18292, P320/UDP. Unpublished study prepared by Product Safety Laboratories. 15 p. |
| 46828904 | Durando, J. (2005) Acute Oral Toxicity Up and Down Procedure in Rats: NUP 12F 03. Project Number: 18003, P320/UDP. Unpublished study prepared by Product Safety Laboratories. 15 p. |
| 46862103 | Durando, J. (2006) LI6167-11: Acute Oral Toxicity Up and Down Procedure in Rats. Project Number: 19196, P320/UDP. Unpublished study prepared by Product Safety Laboratories. 15 p. |
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| 46960302 | Smedley, J. (2006) An Acute Oral Toxicity Study in Rats With MON 79851 (Up/Down Study Design): Final Report. Project Number: EUF00125, CRO/2006/025, RD1674. Unpublished study prepared by Charles River Laboratories, Inc. 25 p. |
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| 47234802 | Kuhn, J. (2007) Acute Oral Toxicity Study (UDP) in Rats with F7120 SC: Final Report. Project Number: A2007/6251, 10823/07. Unpublished study prepared by Stillmeadow, Inc. 20 p. |
| 47298403 | Lowe, C. (2007) Acute Oral Toxicity Up and Down Procedure in Rats: NUP-07010. Project Number: P320/UDP, 22437, 070608/12H. Unpublished study prepared by Eurofins/Product Safety Laboratories. 17 p. |
| 47368703 | Sanders, A. (2008) NNH-950-4: Acute Oral Toxicity in the Rat - Fixed Dose Method. Project Number: 0199/0315. Unpublished study prepared by Safepharm Laboratories, Ltd. 22 p. |
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| 47444701 | Smedley, J. (2008) An Acute Toxicity Study of MON 76116 Administered by the Oral (Gavage) Route to Rats (Up/Down Design): Final Report. Project Number: EUF00207, CRO/2007/252. Unpublished study prepared by Charles River Laboratories, Inc. 28 p. |
| 47456501 | Lowe, C. (2008) MON 76118: Acute Oral Toxicity Up and Down Procedure in Rats. Project Number: EPS/2007/105, 22898, MSL0021291. Unpublished study prepared by Product Safety Laboratories. 16 p. |
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**870.1200       Acute dermal toxicity**

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**870.1300       Acute inhalation toxicity**

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**870.2500       Acute dermal irritation**

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**870.2600       Skin sensitization**

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**850.1010       Aquatic invertebrate acute toxicity, test, freshwater daphnids**

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

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

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**81-4       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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**82-4       90-day inhal.-rat**

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**82-7       Subchronic Neurotoxicity**

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**83-1       Chronic Toxicity**

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

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

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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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**870.3700       Prenatal developmental toxicity study**

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**870.3800       Reproduction and fertility effects**

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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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**890.1450       Female Pubertal (Rat)**

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**890.1500       Male Pubertal (Rat)**

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

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**890.1600       Uterotrophic (Rat)**

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**890.1400       Hershberger (Rat)**

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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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