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

**Bibliography, PC code 044309**

**61-1       Chemical Identity**

|  |  |
| --- | --- |
| **MRID** | **Citation Reference** |
|  |  |
| 45416301 | McFadden, P. (2001) The Physical Characteristics of RTU TI435 End-Use Product: Titan FL: Lab Project Number: PC/01-004. Unpublished study prepared by Gustafson Research and Development Center. 130 p. {OPPTS 830.1550, 830.1600, 830.1650, 830.1670, 830.1750, 830.6302, 830.6303, 830.6304, 830.7300, 830.7000, 830.7100} |
| 45422302 | Fontaine, L. (2001) Product Chemistry of Clothianidin Technical: Lab Project Number: BR 2069: ANR 01101: ANR-01201. Unpublished study prepared by Bayer Corporation. 830 p. {OPPTS 830.6316, 830.1800, 830.1750, 830.1700, 830.1670, 830.1620, 830.1600, 830.1550, 830.1550} |
| 45422304 | Fontaine, L. (2001) Product Chemistry of Clothianidin 600 FS: Lab Project Number: BR-2006: ANR-00201: ANR-00101. Unpublished study prepared by Bayer Corporation. 116 p. |
| 45480401 | Cornes, S. (2001) U.S. EPA Product Properties Test Guidelines Group A and B of TM-44401: Lab Project Number: TMN-0246. Unpublished study prepared by Toxikon Corp. 80 p. {OPPTS 830.1550, 830.1600, 830.1620, 830.1650, 830.1670, 830.1700, 830.1750} |
| 45569801 | Fontaine, L. (2001) Product Chemistry of Clothianidin Technical: Lab Project Number: BR 2098. Unpublished study prepared by Bayer Corp. 6 p. {OPPTS 830.1550} |
| 45654601 | Fontaine, L. (2002) Supplemental Product Chemistry of Clothianidin Technical: Lab Project Number: BR 2210. Unpublished study prepared by Bayer Corp. 429 p. {OPPTS 830.1550, 830.1670, 830.1750} |
| 46345601 | Fontaine, L. (2004) Product Chemistry of Clothianidin Technical. Project Number: BR/2445, 15/920/2215, ANR/13504. Unpublished study prepared by Bayer Corp. 207 p. |
| 47007801 | Folsom, B. (2006) Product Chemistry of Poncho Beta. Project Number: 02/00041, 14/1050/5281, BR2548. Unpublished study prepared by Bayer Corp. 281 p. |
| 47206501 | Mitchell, H. (2007) Product Chemistry of Insecticide TD Concentrate. Project Number: BR/2564, 201639, AM001704KF2. Unpublished study prepared by Bayer Corp. 408 p. |
| 48024201 | Hines, D. (2010) Product Chemistry of Penclotrime 310.68FS. Project Number: M/365173/01/1, BR/2686, M/365173/01/1/OCR. Unpublished study prepared by Bayer CropScience. 360 p. |

**61-2       Description of Beginning Materials and Manufacturing Process**

|  |  |
| --- | --- |
| **MRID** | **Citation Reference** |
|  |  |
| 45416301 | McFadden, P. (2001) The Physical Characteristics of RTU TI435 End-Use Product: Titan FL: Lab Project Number: PC/01-004. Unpublished study prepared by Gustafson Research and Development Center. 130 p. {OPPTS 830.1550, 830.1600, 830.1650, 830.1670, 830.1750, 830.6302, 830.6303, 830.6304, 830.7300, 830.7000, 830.7100} |
| 45422302 | Fontaine, L. (2001) Product Chemistry of Clothianidin Technical: Lab Project Number: BR 2069: ANR 01101: ANR-01201. Unpublished study prepared by Bayer Corporation. 830 p. {OPPTS 830.6316, 830.1800, 830.1750, 830.1700, 830.1670, 830.1620, 830.1600, 830.1550, 830.1550} |
| 45422304 | Fontaine, L. (2001) Product Chemistry of Clothianidin 600 FS: Lab Project Number: BR-2006: ANR-00201: ANR-00101. Unpublished study prepared by Bayer Corporation. 116 p. |
| 45480401 | Cornes, S. (2001) U.S. EPA Product Properties Test Guidelines Group A and B of TM-44401: Lab Project Number: TMN-0246. Unpublished study prepared by Toxikon Corp. 80 p. {OPPTS 830.1550, 830.1600, 830.1620, 830.1650, 830.1670, 830.1700, 830.1750} |
| 46345601 | Fontaine, L. (2004) Product Chemistry of Clothianidin Technical. Project Number: BR/2445, 15/920/2215, ANR/13504. Unpublished study prepared by Bayer Corp. 207 p. |
| 47007801 | Folsom, B. (2006) Product Chemistry of Poncho Beta. Project Number: 02/00041, 14/1050/5281, BR2548. Unpublished study prepared by Bayer Corp. 281 p. |
| 47206501 | Mitchell, H. (2007) Product Chemistry of Insecticide TD Concentrate. Project Number: BR/2564, 201639, AM001704KF2. Unpublished study prepared by Bayer Corp. 408 p. |
| 48024201 | Hines, D. (2010) Product Chemistry of Penclotrime 310.68FS. Project Number: M/365173/01/1, BR/2686, M/365173/01/1/OCR. Unpublished study prepared by Bayer CropScience. 360 p. |

**61-3       Discussion of Formation of Impurities**

|  |  |
| --- | --- |
| **MRID** | **Citation Reference** |
|  |  |
| 45416301 | McFadden, P. (2001) The Physical Characteristics of RTU TI435 End-Use Product: Titan FL: Lab Project Number: PC/01-004. Unpublished study prepared by Gustafson Research and Development Center. 130 p. {OPPTS 830.1550, 830.1600, 830.1650, 830.1670, 830.1750, 830.6302, 830.6303, 830.6304, 830.7300, 830.7000, 830.7100} |
| 45422302 | Fontaine, L. (2001) Product Chemistry of Clothianidin Technical: Lab Project Number: BR 2069: ANR 01101: ANR-01201. Unpublished study prepared by Bayer Corporation. 830 p. {OPPTS 830.6316, 830.1800, 830.1750, 830.1700, 830.1670, 830.1620, 830.1600, 830.1550, 830.1550} |
| 45480401 | Cornes, S. (2001) U.S. EPA Product Properties Test Guidelines Group A and B of TM-44401: Lab Project Number: TMN-0246. Unpublished study prepared by Toxikon Corp. 80 p. {OPPTS 830.1550, 830.1600, 830.1620, 830.1650, 830.1670, 830.1700, 830.1750} |
| 45569801 | Fontaine, L. (2001) Product Chemistry of Clothianidin Technical: Lab Project Number: BR 2098. Unpublished study prepared by Bayer Corp. 6 p. {OPPTS 830.1550} |
| 45654601 | Fontaine, L. (2002) Supplemental Product Chemistry of Clothianidin Technical: Lab Project Number: BR 2210. Unpublished study prepared by Bayer Corp. 429 p. {OPPTS 830.1550, 830.1670, 830.1750} |
| 46345601 | Fontaine, L. (2004) Product Chemistry of Clothianidin Technical. Project Number: BR/2445, 15/920/2215, ANR/13504. Unpublished study prepared by Bayer Corp. 207 p. |
| 47007801 | Folsom, B. (2006) Product Chemistry of Poncho Beta. Project Number: 02/00041, 14/1050/5281, BR2548. Unpublished study prepared by Bayer Corp. 281 p. |
| 47206501 | Mitchell, H. (2007) Product Chemistry of Insecticide TD Concentrate. Project Number: BR/2564, 201639, AM001704KF2. Unpublished study prepared by Bayer Corp. 408 p. |
| 48024201 | Hines, D. (2010) Product Chemistry of Penclotrime 310.68FS. Project Number: M/365173/01/1, BR/2686, M/365173/01/1/OCR. Unpublished study prepared by Bayer CropScience. 360 p. |

**62-1       Preliminary Analysis**

|  |  |
| --- | --- |
| **MRID** | **Citation Reference** |
|  |  |
| 45422302 | Fontaine, L. (2001) Product Chemistry of Clothianidin Technical: Lab Project Number: BR 2069: ANR 01101: ANR-01201. Unpublished study prepared by Bayer Corporation. 830 p. {OPPTS 830.6316, 830.1800, 830.1750, 830.1700, 830.1670, 830.1620, 830.1600, 830.1550, 830.1550} |
| 45480401 | Cornes, S. (2001) U.S. EPA Product Properties Test Guidelines Group A and B of TM-44401: Lab Project Number: TMN-0246. Unpublished study prepared by Toxikon Corp. 80 p. {OPPTS 830.1550, 830.1600, 830.1620, 830.1650, 830.1670, 830.1700, 830.1750} |
| 45654601 | Fontaine, L. (2002) Supplemental Product Chemistry of Clothianidin Technical: Lab Project Number: BR 2210. Unpublished study prepared by Bayer Corp. 429 p. {OPPTS 830.1550, 830.1670, 830.1750} |
| 46345601 | Fontaine, L. (2004) Product Chemistry of Clothianidin Technical. Project Number: BR/2445, 15/920/2215, ANR/13504. Unpublished study prepared by Bayer Corp. 207 p. |
| 47007801 | Folsom, B. (2006) Product Chemistry of Poncho Beta. Project Number: 02/00041, 14/1050/5281, BR2548. Unpublished study prepared by Bayer Corp. 281 p. |

**62-2       Certification of limits**

|  |  |
| --- | --- |
| **MRID** | **Citation Reference** |
|  |  |
| 45416301 | McFadden, P. (2001) The Physical Characteristics of RTU TI435 End-Use Product: Titan FL: Lab Project Number: PC/01-004. Unpublished study prepared by Gustafson Research and Development Center. 130 p. {OPPTS 830.1550, 830.1600, 830.1650, 830.1670, 830.1750, 830.6302, 830.6303, 830.6304, 830.7300, 830.7000, 830.7100} |
| 45422302 | Fontaine, L. (2001) Product Chemistry of Clothianidin Technical: Lab Project Number: BR 2069: ANR 01101: ANR-01201. Unpublished study prepared by Bayer Corporation. 830 p. {OPPTS 830.6316, 830.1800, 830.1750, 830.1700, 830.1670, 830.1620, 830.1600, 830.1550, 830.1550} |
| 45422304 | Fontaine, L. (2001) Product Chemistry of Clothianidin 600 FS: Lab Project Number: BR-2006: ANR-00201: ANR-00101. Unpublished study prepared by Bayer Corporation. 116 p. |
| 45480401 | Cornes, S. (2001) U.S. EPA Product Properties Test Guidelines Group A and B of TM-44401: Lab Project Number: TMN-0246. Unpublished study prepared by Toxikon Corp. 80 p. {OPPTS 830.1550, 830.1600, 830.1620, 830.1650, 830.1670, 830.1700, 830.1750} |
| 45654601 | Fontaine, L. (2002) Supplemental Product Chemistry of Clothianidin Technical: Lab Project Number: BR 2210. Unpublished study prepared by Bayer Corp. 429 p. {OPPTS 830.1550, 830.1670, 830.1750} |
| 46345601 | Fontaine, L. (2004) Product Chemistry of Clothianidin Technical. Project Number: BR/2445, 15/920/2215, ANR/13504. Unpublished study prepared by Bayer Corp. 207 p. |
| 47007801 | Folsom, B. (2006) Product Chemistry of Poncho Beta. Project Number: 02/00041, 14/1050/5281, BR2548. Unpublished study prepared by Bayer Corp. 281 p. |
| 47206501 | Mitchell, H. (2007) Product Chemistry of Insecticide TD Concentrate. Project Number: BR/2564, 201639, AM001704KF2. Unpublished study prepared by Bayer Corp. 408 p. |

**62-3       Analytical Method**

|  |  |
| --- | --- |
| **MRID** | **Citation Reference** |
|  |  |
| 45416303 | Dunn, N. (2001) Validation of a Method for the Determination of Metalaxyl in GUS 7047-01 by Gas Chromatography: Final Report: Lab Project Number: GRL-11797: 2000-010: GRL-FR-11797. Unpublished study prepared by Crompton Co. 33 p. |
| 45416304 | Dunn, N. (2001) Validation of a Method for the Determination of Clothiandan, Carbathiin and Thiram in GUS 7047-01 by High Performance Liquid Chromatography: Final Report: Lab Project Number: GRL-11796: 2000-009: GRL-FR-11796. Unpublished study prepared by Crompton Co. 39 p. |
| 45422301 | Fontaine, L. (2001) Product Chemistry of Clothianidin Technical: Lab Project Number: BR 2068: 2005-0009101-99E: ANR-01701. Unpublished study prepared by Bayer Corporation. 462 p. {OPPTS 830.1800, 830.7200, 830.7220, 830.7300, 830.7950, 830.6302, 830.6304, 830.7050, 830.7840, 830.7570, 830.7370, 830.6315, 830.6316, 830.6314, 830.6317, 830.7000, 830.6313, 830.6319, 830.6320, 830.7520} |
| 45422302 | Fontaine, L. (2001) Product Chemistry of Clothianidin Technical: Lab Project Number: BR 2069: ANR 01101: ANR-01201. Unpublished study prepared by Bayer Corporation. 830 p. {OPPTS 830.6316, 830.1800, 830.1750, 830.1700, 830.1670, 830.1620, 830.1600, 830.1550, 830.1550} |
| 45422514 | Kendall, T.; Nixon, W. (1999) Analytical Method Verification for the Determination of TI-435 Technical in Avian Diet: Lab Project Number: 197C-101: 110170. Unpublished study prepared by Wildlife International, Ltd. 56 p. |
| 45422827 | Moore, K.; Shelton, L. (1998) A Liquid Chromatographic Method for the Determination of TI 435 in Dose Preparations: Lab Project Number: 97-899-OA: 108503. Unpublished study prepared by Bayer Corporation. 14 p. |
| 45422828 | Moore, K.; Shelton, L. (1998) A Liquid Chromatographic Method for the Determination of TI 435 in Rodent Ration: Lab Project Number: 97-899-MA: 107645. Unpublished study prepared by Bayer Corporation. 18 p. |
| 46345601 | Fontaine, L. (2004) Product Chemistry of Clothianidin Technical. Project Number: BR/2445, 15/920/2215, ANR/13504. Unpublished study prepared by Bayer Corp. 207 p. |
| 47007801 | Folsom, B. (2006) Product Chemistry of Poncho Beta. Project Number: 02/00041, 14/1050/5281, BR2548. Unpublished study prepared by Bayer Corp. 281 p. |
| 47206501 | Mitchell, H. (2007) Product Chemistry of Insecticide TD Concentrate. Project Number: BR/2564, 201639, AM001704KF2. Unpublished study prepared by Bayer Corp. 408 p. |

**63-0       Reports of Multiple phys/chem Characteristics**

|  |  |
| --- | --- |
| **MRID** | **Citation Reference** |
|  |  |
| 45416301 | McFadden, P. (2001) The Physical Characteristics of RTU TI435 End-Use Product: Titan FL: Lab Project Number: PC/01-004. Unpublished study prepared by Gustafson Research and Development Center. 130 p. {OPPTS 830.1550, 830.1600, 830.1650, 830.1670, 830.1750, 830.6302, 830.6303, 830.6304, 830.7300, 830.7000, 830.7100} |
| 45422301 | Fontaine, L. (2001) Product Chemistry of Clothianidin Technical: Lab Project Number: BR 2068: 2005-0009101-99E: ANR-01701. Unpublished study prepared by Bayer Corporation. 462 p. {OPPTS 830.1800, 830.7200, 830.7220, 830.7300, 830.7950, 830.6302, 830.6304, 830.7050, 830.7840, 830.7570, 830.7370, 830.6315, 830.6316, 830.6314, 830.6317, 830.7000, 830.6313, 830.6319, 830.6320, 830.7520} |
| 45422303 | Fontaine, L. (2001) Product Chemistry of Clothianidin 600 FS: Lab Project Number: BR-2064: ANR-00501: 109521. Unpublished study prepared by Bayer Corporation. 46 p. {OPPTS 830.6302, 830.6303, 830.6304, 830.6314, 830.6315, 830.6316, 830.87100, 830.6320, 830.7000, 830.7300} |
| 45480401 | Cornes, S. (2001) U.S. EPA Product Properties Test Guidelines Group A and B of TM-44401: Lab Project Number: TMN-0246. Unpublished study prepared by Toxikon Corp. 80 p. {OPPTS 830.1550, 830.1600, 830.1620, 830.1650, 830.1670, 830.1700, 830.1750} |
| 47007801 | Folsom, B. (2006) Product Chemistry of Poncho Beta. Project Number: 02/00041, 14/1050/5281, BR2548. Unpublished study prepared by Bayer Corp. 281 p. |

**63-2       Color**

|  |  |
| --- | --- |
| **MRID** | **Citation Reference** |
|  |  |
| 46853901 | Bates, P. (2005) The Physical Characteristics of GUS 7082-00 Seed Treatment End-Use Product. Project Number: PC/04/005. Unpublished study prepared by Gustafson Seed Technology Center. 109 p. |
| 47007801 | Folsom, B. (2006) Product Chemistry of Poncho Beta. Project Number: 02/00041, 14/1050/5281, BR2548. Unpublished study prepared by Bayer Corp. 281 p. |
| 47206501 | Mitchell, H. (2007) Product Chemistry of Insecticide TD Concentrate. Project Number: BR/2564, 201639, AM001704KF2. Unpublished study prepared by Bayer Corp. 408 p. |

**63-3       Physical State**

|  |  |
| --- | --- |
| **MRID** | **Citation Reference** |
|  |  |
| 46853901 | Bates, P. (2005) The Physical Characteristics of GUS 7082-00 Seed Treatment End-Use Product. Project Number: PC/04/005. Unpublished study prepared by Gustafson Seed Technology Center. 109 p. |
| 47007801 | Folsom, B. (2006) Product Chemistry of Poncho Beta. Project Number: 02/00041, 14/1050/5281, BR2548. Unpublished study prepared by Bayer Corp. 281 p. |
| 47206501 | Mitchell, H. (2007) Product Chemistry of Insecticide TD Concentrate. Project Number: BR/2564, 201639, AM001704KF2. Unpublished study prepared by Bayer Corp. 408 p. |

**63-4       Odor**

|  |  |
| --- | --- |
| **MRID** | **Citation Reference** |
|  |  |
| 46853901 | Bates, P. (2005) The Physical Characteristics of GUS 7082-00 Seed Treatment End-Use Product. Project Number: PC/04/005. Unpublished study prepared by Gustafson Seed Technology Center. 109 p. |
| 47007801 | Folsom, B. (2006) Product Chemistry of Poncho Beta. Project Number: 02/00041, 14/1050/5281, BR2548. Unpublished study prepared by Bayer Corp. 281 p. |
| 47206501 | Mitchell, H. (2007) Product Chemistry of Insecticide TD Concentrate. Project Number: BR/2564, 201639, AM001704KF2. Unpublished study prepared by Bayer Corp. 408 p. |

**63-5       Melting Point**

|  |  |
| --- | --- |
| **MRID** | **Citation Reference** |
|  |  |
| 47007801 | Folsom, B. (2006) Product Chemistry of Poncho Beta. Project Number: 02/00041, 14/1050/5281, BR2548. Unpublished study prepared by Bayer Corp. 281 p. |

**63-6       Boiling Point**

|  |  |
| --- | --- |
| **MRID** | **Citation Reference** |
|  |  |
| 47007801 | Folsom, B. (2006) Product Chemistry of Poncho Beta. Project Number: 02/00041, 14/1050/5281, BR2548. Unpublished study prepared by Bayer Corp. 281 p. |

**63-7       Density**

|  |  |
| --- | --- |
| **MRID** | **Citation Reference** |
|  |  |
| 46853901 | Bates, P. (2005) The Physical Characteristics of GUS 7082-00 Seed Treatment End-Use Product. Project Number: PC/04/005. Unpublished study prepared by Gustafson Seed Technology Center. 109 p. |
| 47007801 | Folsom, B. (2006) Product Chemistry of Poncho Beta. Project Number: 02/00041, 14/1050/5281, BR2548. Unpublished study prepared by Bayer Corp. 281 p. |
| 47206501 | Mitchell, H. (2007) Product Chemistry of Insecticide TD Concentrate. Project Number: BR/2564, 201639, AM001704KF2. Unpublished study prepared by Bayer Corp. 408 p. |

**63-8       Solubility**

|  |  |
| --- | --- |
| **MRID** | **Citation Reference** |
|  |  |
| 47007801 | Folsom, B. (2006) Product Chemistry of Poncho Beta. Project Number: 02/00041, 14/1050/5281, BR2548. Unpublished study prepared by Bayer Corp. 281 p. |

**63-9       Vapor Pressure**

|  |  |
| --- | --- |
| **MRID** | **Citation Reference** |
|  |  |
| 47007801 | Folsom, B. (2006) Product Chemistry of Poncho Beta. Project Number: 02/00041, 14/1050/5281, BR2548. Unpublished study prepared by Bayer Corp. 281 p. |

**63-10       Dissociation Constant**

|  |  |
| --- | --- |
| **MRID** | **Citation Reference** |
|  |  |
| 47007801 | Folsom, B. (2006) Product Chemistry of Poncho Beta. Project Number: 02/00041, 14/1050/5281, BR2548. Unpublished study prepared by Bayer Corp. 281 p. |

**63-11       Oct/Water partition Coef.**

|  |  |
| --- | --- |
| **MRID** | **Citation Reference** |
|  |  |
| 45422307 | Schneider, J. (2000) Partition Coefficient in Octanol-Water of TI435-TZNG: Lab Project Number: 14 0036 1023: 110276. Unpublished study prepared by Bayer Ag. 20 p. |
| 45422308 | Schneider, J. (2000) Partition Coefficient in Octanol-Water of TI435-MNG: Lab Project Number: 14 0036 1020: 110277. Unpublished study prepared by Bayer AG. 20 p. |
| 45422309 | Schneider, J. (2001) Partition Coefficient in Octanol-Water of TI435-TZMU: Lab Project Number: 14 0036 1022: 110278. Unpublished study prepared by Bayer, Ag. 18 p. |
| 45422310 | Schneider, J. (2001) Partition Coefficient in Octanol-Water of TI435-TMG: Lab Project Number: 14 0036 1021: 110279. Unpublished study prepared by Bayer, Ag. 18 p. |
| 47007801 | Folsom, B. (2006) Product Chemistry of Poncho Beta. Project Number: 02/00041, 14/1050/5281, BR2548. Unpublished study prepared by Bayer Corp. 281 p. |

**63-12       pH**

|  |  |
| --- | --- |
| **MRID** | **Citation Reference** |
|  |  |
| 46853901 | Bates, P. (2005) The Physical Characteristics of GUS 7082-00 Seed Treatment End-Use Product. Project Number: PC/04/005. Unpublished study prepared by Gustafson Seed Technology Center. 109 p. |
| 47007801 | Folsom, B. (2006) Product Chemistry of Poncho Beta. Project Number: 02/00041, 14/1050/5281, BR2548. Unpublished study prepared by Bayer Corp. 281 p. |
| 47206501 | Mitchell, H. (2007) Product Chemistry of Insecticide TD Concentrate. Project Number: BR/2564, 201639, AM001704KF2. Unpublished study prepared by Bayer Corp. 408 p. |

**63-13       Stability**

|  |  |
| --- | --- |
| **MRID** | **Citation Reference** |
|  |  |
| 45422723 | Williams, K. (1998) Analytical Validation and Stability of Rodent Chow (TI-435): Lab Project Number: 6155-110: 109827. Unpublished study prepared by Covance Laboratories Ltd. 44 p. |
| 47007801 | Folsom, B. (2006) Product Chemistry of Poncho Beta. Project Number: 02/00041, 14/1050/5281, BR2548. Unpublished study prepared by Bayer Corp. 281 p. |

**63-14       Oxidizing/Reducting Action**

|  |  |
| --- | --- |
| **MRID** | **Citation Reference** |
|  |  |
| 45416302 | Dunn, N. (2001) The Oxidizing and Reducing Characteristics of GUS 7047-01: Final Report: Lab Project Number: GRL-11798: 2000-011: GR-FR-11798. Unpublished study prepared by Crompton Co. 23 p. {OPPTS 830.6314} |
| 47007801 | Folsom, B. (2006) Product Chemistry of Poncho Beta. Project Number: 02/00041, 14/1050/5281, BR2548. Unpublished study prepared by Bayer Corp. 281 p. |

**63-15       Flammability**

|  |  |
| --- | --- |
| **MRID** | **Citation Reference** |
|  |  |
| 47007801 | Folsom, B. (2006) Product Chemistry of Poncho Beta. Project Number: 02/00041, 14/1050/5281, BR2548. Unpublished study prepared by Bayer Corp. 281 p. |
| 47206501 | Mitchell, H. (2007) Product Chemistry of Insecticide TD Concentrate. Project Number: BR/2564, 201639, AM001704KF2. Unpublished study prepared by Bayer Corp. 408 p. |

**63-16       Explodability**

|  |  |
| --- | --- |
| **MRID** | **Citation Reference** |
|  |  |
| 45422302 | Fontaine, L. (2001) Product Chemistry of Clothianidin Technical: Lab Project Number: BR 2069: ANR 01101: ANR-01201. Unpublished study prepared by Bayer Corporation. 830 p. {OPPTS 830.6316, 830.1800, 830.1750, 830.1700, 830.1670, 830.1620, 830.1600, 830.1550, 830.1550} |
| 47007801 | Folsom, B. (2006) Product Chemistry of Poncho Beta. Project Number: 02/00041, 14/1050/5281, BR2548. Unpublished study prepared by Bayer Corp. 281 p. |

**63-17       Storage stability**

|  |  |
| --- | --- |
| **MRID** | **Citation Reference** |
|  |  |
| 45422301 | Fontaine, L. (2001) Product Chemistry of Clothianidin Technical: Lab Project Number: BR 2068: 2005-0009101-99E: ANR-01701. Unpublished study prepared by Bayer Corporation. 462 p. {OPPTS 830.1800, 830.7200, 830.7220, 830.7300, 830.7950, 830.6302, 830.6304, 830.7050, 830.7840, 830.7570, 830.7370, 830.6315, 830.6316, 830.6314, 830.6317, 830.7000, 830.6313, 830.6319, 830.6320, 830.7520} |
| 45422304 | Fontaine, L. (2001) Product Chemistry of Clothianidin 600 FS: Lab Project Number: BR-2006: ANR-00201: ANR-00101. Unpublished study prepared by Bayer Corporation. 116 p. |
| 45750301 | Vanstone, C. (2002) Determination of the Storage Stability and Corrosion Characteristics of GUS 7047-01 in Blue HDPE Drums: 1 Year Study: Final Report: Lab Project Number: GRL-11799: 2000-012: GRL-FR-11799. Unpublished study prepared by Crompton Co. 43 p. {OPPTS 830.6317, 830.6320} |
| 45750302 | Vanstone, C. (2002) Determination of the Storage Stability and Corrosion Characteristics of GUS 7047-01 in Florinated HDPE Jugs: 1 Year Study: Final Report: Lab Project Number: GRL-11800: 2000-013: GRL-FR-11800. Unpublished study prepared by Crompton Co. 43 p. {OPPTS 830.6317, 830.6320} |
| 45750303 | Vanstone, C. (2002) Determination of the Storage Stability and Corrosion Characteristics of GUS 7047-01 in Non-Florinated HDPE Jugs: 1 Year Study: Final Report: Lab Project Number: GRL-11801: 2000-014: GRL-FR-11801. Unpublished study prepared by Crompton Co. 43 p. {OPPTS 830.6317, 830.6320} |
| 45750304 | Vanstone, C. (2002) Determination of the Storage Stability and Corrosion Characteristics of GUS 7047-01 in Stainless Steel Totes: 1 Year Study: Final Report: Lab Project Number: GRL-11802: 2000-015. Unpublished study prepared by Crompton Co. 43 p. {OPPTS 830.6317, 830.6320} |
| 45750305 | Vanstone, C. (2002) Determination of the Storage Stability and Corrosion Characteristics of GUS 7047-01 in Plastic Totes: 1 Year Study: Final Report: Lab Project Number: GRL-11803: 2000-016. Unpublished study prepared by Crompton Co. 43 p. {OPPTS 830.6317, 83.6320} |
| 47007801 | Folsom, B. (2006) Product Chemistry of Poncho Beta. Project Number: 02/00041, 14/1050/5281, BR2548. Unpublished study prepared by Bayer Corp. 281 p. |

**63-18       Viscosity**

|  |  |
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| **MRID** | **Citation Reference** |
|  |  |
| 46853901 | Bates, P. (2005) The Physical Characteristics of GUS 7082-00 Seed Treatment End-Use Product. Project Number: PC/04/005. Unpublished study prepared by Gustafson Seed Technology Center. 109 p. |
| 47007801 | Folsom, B. (2006) Product Chemistry of Poncho Beta. Project Number: 02/00041, 14/1050/5281, BR2548. Unpublished study prepared by Bayer Corp. 281 p. |
| 47206501 | Mitchell, H. (2007) Product Chemistry of Insecticide TD Concentrate. Project Number: BR/2564, 201639, AM001704KF2. Unpublished study prepared by Bayer Corp. 408 p. |

**63-19       Miscibility**

|  |  |
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| **MRID** | **Citation Reference** |
|  |  |
| 47007801 | Folsom, B. (2006) Product Chemistry of Poncho Beta. Project Number: 02/00041, 14/1050/5281, BR2548. Unpublished study prepared by Bayer Corp. 281 p. |

**63-20       Corrosion characteristics**

|  |  |
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| **MRID** | **Citation Reference** |
|  |  |
| 45750301 | Vanstone, C. (2002) Determination of the Storage Stability and Corrosion Characteristics of GUS 7047-01 in Blue HDPE Drums: 1 Year Study: Final Report: Lab Project Number: GRL-11799: 2000-012: GRL-FR-11799. Unpublished study prepared by Crompton Co. 43 p. {OPPTS 830.6317, 830.6320} |
| 45750302 | Vanstone, C. (2002) Determination of the Storage Stability and Corrosion Characteristics of GUS 7047-01 in Florinated HDPE Jugs: 1 Year Study: Final Report: Lab Project Number: GRL-11800: 2000-013: GRL-FR-11800. Unpublished study prepared by Crompton Co. 43 p. {OPPTS 830.6317, 830.6320} |
| 45750303 | Vanstone, C. (2002) Determination of the Storage Stability and Corrosion Characteristics of GUS 7047-01 in Non-Florinated HDPE Jugs: 1 Year Study: Final Report: Lab Project Number: GRL-11801: 2000-014: GRL-FR-11801. Unpublished study prepared by Crompton Co. 43 p. {OPPTS 830.6317, 830.6320} |
| 45750304 | Vanstone, C. (2002) Determination of the Storage Stability and Corrosion Characteristics of GUS 7047-01 in Stainless Steel Totes: 1 Year Study: Final Report: Lab Project Number: GRL-11802: 2000-015. Unpublished study prepared by Crompton Co. 43 p. {OPPTS 830.6317, 830.6320} |
| 45750305 | Vanstone, C. (2002) Determination of the Storage Stability and Corrosion Characteristics of GUS 7047-01 in Plastic Totes: 1 Year Study: Final Report: Lab Project Number: GRL-11803: 2000-016. Unpublished study prepared by Crompton Co. 43 p. {OPPTS 830.6317, 83.6320} |
| 47007801 | Folsom, B. (2006) Product Chemistry of Poncho Beta. Project Number: 02/00041, 14/1050/5281, BR2548. Unpublished study prepared by Bayer Corp. 281 p. |

**63-21       Dielectric breakdown voltage**

|  |  |
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| **MRID** | **Citation Reference** |
|  |  |
| 47007801 | Folsom, B. (2006) Product Chemistry of Poncho Beta. Project Number: 02/00041, 14/1050/5281, BR2548. Unpublished study prepared by Bayer Corp. 281 p. |

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

|  |  |
| --- | --- |
| **MRID** | **Citation Reference** |
|  |  |
| 45422417 | Johnson, A. (1998) TI-435 Technical Acute Oral Toxicity (LD50) to Bobwhite Quail: Lab Project Number: TDA 232: 110016. Unpublished study prepared by Huntingdon Life Sciences, Ltd. 47 p. |
| 45422418 | Gallagher, S.; Beavers, J. (2000) TI-435 Technical: An Acute Oral Toxicity Study with the Japanese Quail: Lab Project Number: 197-128: 110015. Unpublished study prepared by Wildlife International, Ltd. 41 p. |

**71-2       Avian Dietary Toxicity**

|  |  |
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| **MRID** | **Citation Reference** |
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| 45422419 | Johnson, A. (1998) TI-435 Technical Dietary LC50 to the Bobwhite Quail: Lab Project Number: TDA 233: 110050. Unpublished study prepared by Huntingdon Life Sciences Ltd. 45 p. |
| 45422420 | Johnson, A. (1998) TI-435 Technical Dietary LC50 to the Mallard Duck: Lab Project Number: TDA 234: 110051. Unpublished study prepared by Huntingdon Life Sciences Ltd. 41 p. |
| 45422423 | Barfknecht, R. (2001) Attractiveness of Freshly Drilled Maize Fields for Large seed Eating Birds (TI-435 Technical): Lab Project Number: E308 1831-4: 110400. Unpublished study prepared by Bayer AG. 35 p. |
| 45422424 | Wolf, C. (2001) Generic Avian Field Study on Freshly Drilled Oiled Rape Fields in Great Britain(TI-435 Technical): Lab Project Number: E308 1918-0: 110293. Unpublished study prepared by Bayer AG. 125 p. |
| 45422515 | Barfknecht, R. (1998) Acceptance of TI 435 FS 600-Coated Rape Seeds (1.67 L product/100 kg seed) by Japanese Quail (Coturnix cortunix japonica): Lab Project Number: E200 1349-9: 110178. Unpublished study prepared by Bayer AG. 34 p. |
| 45422516 | Barfknecht, R. (1998) Acceptance of TI 435 FS 600-Coating of Maize Seeds (50 g a.i./5000 seeds) by Domestic Pigeon (Columba livia-f. domestica) according to BBA-Test Guideline 25-1: Lab Project Number: E 200 1351-2: 110070. Unpublished study prepared by Bayer AG. 28 p. |
| 45422517 | Barfknecht, R. (2000) Acceptance of TI 435 FS 600 (25 g a.i./unit) Treated Seeds by Domestic Pigeon (Columba livia f. domestica): Lab Project Number: E200 1922-6: 110181. Unpublished study prepared by Bayer AG. 22 p. |

**71-4       Avian Reproduction**

|  |  |
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| **MRID** | **Citation Reference** |
|  |  |
| 45422421 | Gallagher, S.; Casey, C.; Beavers, J. et al. (2000) TI-435 Technical A Reproduction Study with the Northern Bobwhite (Colinus virgianus): Lab Project Number: 197-122: 110052. Unpublished study prepared by Wildlife International, Ltd. 183 p. |
| 45422422 | Gallagher, S.; Casey, C. ; Beavers, J. et al. (2000) TI-435 Technical A Reproduction Study with the Mallard (Ana platyrhynchos): Lab Project Number: 197-123: 110053. Unpublished study prepared by Wildlife International, Ltd. 182 p. |

**72-1       Acute Toxicity to Freshwater Fish**

|  |  |
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| **MRID** | **Citation Reference** |
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| 45422406 | Wilhelmy, H.; Geffke, T. (1998) TI-435 Technical: Fish (Rainbow Trout), Acute Toxicity Test, 96h, Limit Test: Lab Project Number: FAR54472/CFF54472: 110283. Unpublished study prepared by Dr. U. Noack Laboratory for Applied Biology. 42 p. {OPPTS 850.1075} |
| 45422407 | Palmer, S.; MacGregor, J.; Krueger, H. (2000) TI-435 Technical: A 96-Hour Static Toxicity Test with the Bluegill (Lepomis macrochirus): Lab Project Number: 149A-123: T5810301: 110003. Unpublished study prepared by Wildlife International, Ltd. 37 p. |
| 45422408 | Dorgerloh, M. (2000) TI-435 Thiazolylmethylguanin-Acute Toxicity (96 Hours) to Rainbow Trout (Oncorhynchus mykiss) in a Static test (Limit Test): Lab Project Number: E 250 1889-3: 110020. Unpublished study prepared by Bayer AG. 44 p. |
| 45422409 | Dorgerloh, M.; Sommer, H. (2000) N-Methylnitroguanine-Acute Toxicity (96 Hours) to Rainbow Trout (Oncorhynchus mykiss) in a Static test (Limit Test): Lab Project Number: E 250 1890-5: 110063. Unpublished study prepared by Bayer AG. 46 p. |
| 45422410 | Dorgerloh, M.; Sommer, H. (2000) TI 435 - Thiazolylnitroguanidine-Acute Toxicity (96 Hours) to Rainbow Trout (Oncorhynchus mykiss) in a Static test (Limit Test): Lab Project Number: E 250 1888-2: 110019. Unpublished study prepared by Bayer AG. 45 p. |

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

|  |  |
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| **MRID** | **Citation Reference** |
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| 45422338 | Palmer, S.; MacGregor, J.; Krueger, H. (2000) TI-435 Technical: A 48-Hour Static Acute Toxicity Test with the Cladoceran (Daphnia magna): Lab Project Number: 149A-122: 110004: T5820101. Unpublished study prepared by Wildlife International, Ltd. 38 p. {OPPTS 850.1010} |
| 45422339 | Hendel, B. (2000) Acute Toxicity of TI 435-Thiazolylmethylguanidine (techn.) to Water Fleas (Daphnia magna): Lab Project Number: E 320 1881-3: 110021: HDB/DM 229. Unpublished study prepared by Bayer AG. 25 p. |
| 45422340 | Hendel, B. (2000) Acute Toxicity of N-Methylnitroguanidine (techn.) to Water Fleas (Daphnia magna): Lab Project Number: E 320 1880-2: 11064: HDB DM/232. Unpublished study prepared by Bayer AG. 24 p. |
| 45422401 | Hendel, B. (2000) Acute Toxicity of TI 435-Thiazolylnitroguanidine (techn.) to Water Fleas (Daphnia magna): Lab Project Number: E 320 1879-0: 110022. Unpublished study prepared by Bayer AG. 26 p. |
| 45422402 | Hendel, B. (2000) Acute Toxicity of Leachate Water Samples of a Lysimeter on TI 435 (Lysimeter 17 and 18, sampling time: 1999-10-11 to 2000-07-07) to Water Fleas (Daphnia magna): Lab Project Number: E 320 1975-7: 110060. Unpublished study prepared by Bayer AG. 16 p. |

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

|  |  |
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| **MRID** | **Citation Reference** |
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| 45422403 | Drottar, K.; MacGregor, J.; Krueger, H. (2000) TI-435 Technical: A 96-Hour Flow-Through Acute Toxicity Test with the Saltwater Mysid (Mysidopsis bahia): Lab Project Number: 197A-101: 110058. Unpublished study prepared by Wildlife International, Ltd. 45 p. {OPPTS 850.1035} |
| 45422404 | Scheerbaum, D. (1999) TI-435 Technical: Oyster, Acute Toxicity Test (Shell Deposition), Limit Test, Flow-Through, 96h: Lab Project Number: DOA60771: 110174. Unpublished study prepared by Dr. U. Noack Laboratory for Applied Biology. 36 p. {OPPTS 850.1025} |
| 45422405 | Drottar, K.; MacGregor, J.; Krueger, H. (2000) TI-435 Technical: A Flow-Through Life-Cycle Toxicity Test with the Saltwater Mysid (Mysidopsis bahia): Lab Project Number: 197A-103: 110167. Unpublished study prepared by Wildlife International, Ltd. 65 p. {OPPTS 850.1350} |
| 45422411 | Scheerbaum, D. (1999) TI 435 Technical: Fish (Sheepshead minnow), Acute Toxicity, Limit Test, 96h, Semi-static: Lab Project Number: FAS60771: 110173. Unpublished study prepared by Dr. U. Noack Laboratory for Applied Biology. 37 p. {OPPTS 850.1075} |

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

|  |  |
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| **MRID** | **Citation Reference** |
|  |  |
| 45422412 | Noack, M.; Geffke, T. (1998) TI 435 Technical: Daphnia magna Reproduction Test (21 d): Lab Project Number: DRE54471/CDR54471: 110018. Unpublished study prepared by Dr. U. Noack Laboratory for Applied Biology. 59 p. |
| 45422413 | Drottar, K.; Krueger, H. (2000) TI-435 Technical: An Early Life-Stage Toxicity Test with the Fathead Minnow (Pimephales promelas): Lab Project Number: 149A-124B: T5851201: 110163. Unpublished study prepared by Wildlife International, Ltd. 77 p. {OPPTS 850.1400} |
| 45422509 | Heimbach, F. (1999) Influence of TI 435 Technical on Development and Emergence of Larvae of Chironomus riparius in a Water-Sediment System: Lab Project Number: E 416 1397-1: 110065. Unpublished study prepared by Bayer AG. 43 p. |
| 45422510 | Heimbach, F. (1998) Influence of TMG (tech.) on Development and Emergence of Larvae of Chironomus riparius in a Water-Sediment System: Lab Project Number: 110179: E416 1380-3: HBF/CH 26. Unpublished study prepared by Bayer AG. 47 p. |

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

|  |  |
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| **MRID** | **Citation Reference** |
|  |  |
| 45416305 | Merkel, D. (2001) Acute Oral Toxicity Study in Rats--Limit Test: GUS 7047-01: Lab Project Number: 9876: P320. Unpublished study prepared by Product Safety Labs. 14 p. {OPPTS 870.1100} |
| 45422621 | Gardner, J. (1997) TI-435 Acute Oral Toxicity Study in the Rat: Lab Project Number: 586/120-1032: 109847. Unpublished study prepared by Covance Laboratories. 46 p. {OPPTS 870.1100} |
| 45422622 | Gardner, J. (1997) TI-435 Acute Oral Toxicity Study in the Mouse: Lab Project Number: 586/121-1032: 109848. Unpublished study prepared by Covance Laboratories. 45 p. {OPPTS 870.1100} |
| 45422623 | Ruddock, W. (2000) BN0335E2 Acute Oral Toxicity Study in the Rat: Lab Project Number: 586/229-D6144: 110236. Unpublished study prepared by Covance Laboratories. 29 p. {OPPTS 870.1100} |
| 45422624 | Ruddock, W. (1999) TZMU Acute Oral Toxicity Study in the Rat: Lab Project Number: 586/152-D6144. Unpublished study prepared by Covance Laboratories. 61 p. {OPPTS 80.1100} |
| 45422625 | Ruddock, W. (1999) Methyl Guanidine (MG) Acute Oral Toxicity Study in the Rat: Lab Project Number: 586/153-D6144: 110200. Unpublished study prepared by Covance Laboratories. 56 p. {OPPTS 870.1100} |
| 45422626 | Ruddock, W. (2000) TZNG Acute Oral Toxicity Study in the Rat: Lab Project Number: 586/163-D6144: 110207. Unpublished study prepared by Covance Laboratories. 39 p. {OPPTS 870.1100} |
| 45422627 | Dawkes, N. (1999) TMG Acute Oral Toxicity Study in the Rat: Lab Project Number: 586/164-D6144: 110206. Unpublished study prepared by Covance Laboratories. 39 p. {OPPTS 870.1100} |
| 45422628 | Ruddock, W. (2000) BN0230M Acute Oral Toxicity Study in the Rat: Lab Project Number: 586/228-D6144: 110237. Unpublished study prepared by Covance Laboratories. 29 p. {OPPTS 870.1100} |
| 45422629 | Ruddock, W. (1999) MAI Acute Oral Toxicity Study in the Rat: Lab Project Number: 586/176-D6144: 110208. Unpublished study prepared by Covance Laboratories. 42 p. {OPPTS 870.1100} |
| 45422630 | Krotlinger, F. (2000) TI 435-CCMT-AADUCT Study for Acute Oral Toxicity Study in Rats: Lab Project Number: PH 29814: T2069070: 110213. Unpublished study prepared by Bayer AG. 29 p. |
| 45422631 | Krotlinger, F. (2000) TI 435-Hexahydropyrimidine (By-Product of Technical TI 435) Study for Acute Oral Toxicity Study in Rats: Lab Project Number: PH 30517: T4070025. Unpublished study prepared by Bayer AG. 27 p. {OPPTS 870.1100} |
| 45422632 | Krotlinger, F. (2000) TI 435-Triazan Acute Oral Toxicity Study in Male and Female Wistar Rats: Lab Project Number: PH 30096: T5069640. Unpublished study prepared by Bayer AG. 26 p. {OPPTS 870.1100} |
| 45422633 | Krotlinger, F. (1999) TI 435 600 FS 06568/0020 (c.n. Clothianidin) Study for Acute Oral Toxicity Study in Rats: Lab Project Number: PH-29295: T8068356. Unpublished study prepared by Bayer AG. 28 p. {OPPTS 870.1100} |
| 45490706 | Hoffman, G. (2000) V-10066 50 WDG: Acute Oral Toxicity Study in Rats: Lab Project Number: 99-0600: TMN-0339: VP-21928. Unpublished study prepared by Huntingdon Life Sciences. 53 p. {OPPTS 870.1100} |
| 45587404 | Wahle, B. (2001) TI 435 600 SC: An Acute Oral LD (50) Study in the Rat: Lab Project Number: 110817: 01-A12-GO. Unpublished study prepared by Bayer Corp. 70 p. {OPPTS 870.1100} |
| 45861401 | Wahle, B. (2002) TI 435 600 FS: An Acute Oral LD50 Study in the Rat: Revised Report: Lab Project Number: 110817-1: 01-A12-GO. Unpublished study prepared by Bayer Corporation. 70 p. {OPPTS 870.1100} |
| 47206503 | Sargent, D. (2007) Bridging Rationale for Acute Toxicity Studies on Bayer Advanced Insecticide TD Concentrate. Project Number: BA07/DS/02, BA06/DS/11. Unpublished study prepared by Bayer Advanced. 12 p. |
| 47783702 | Sargent, D. (2008) Bridging Rationale for Acute Toxicity Studies for Insecticide TD Granule. Project Number: BA08/DS/02, BA08/DS/02A. Unpublished study prepared by Bayer CropScience. 11 p. |

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

|  |  |
| --- | --- |
| **MRID** | **Citation Reference** |
|  |  |
| 45416306 | Merkel, D. (2001) Acute Dermal Toxicity Study in Rats--Limit Test: GUS 7047-01: Lab Project Number: 9877: P322. Unpublished study prepared by Product Safety Labs. 15 p. {OPPTS 870.1200} |
| 45422634 | Gardner, J. (1997) TI 435 Acute Dermal Toxicity Study in the Rat: Lab Project Number: 586/122-1032: 109849. Unpublished study prepared by Covance Laboratories. 32 p. {OPPTS 870.1200} |
| 45422635 | Krotlinger, F. (1999) TI 0435 600 FS 06568/0020 (c.n. Clothianidin) Study for Acute Dermal Toxicity in Rats: Lab Project Number: PH-29294: T9068357: 109823. Unpublished study prepared by Bayer AG. 27 p. {OPPTS 870.1200} |
| 45490707 | Hoffman, G. (2000) V-10066 50 WDG: Acute Dermal Toxicity Study in Rats: Lab Project Number: 99-0601: TMN-0340: VP-21936. Unpublished study prepared by Huntingdon Life Sciences. 30 p. {OPPTS 870.1200} |
| 47007808 | Sargent, D. (2006) Bridging Rationale for Acute Toxicity Studies on Bayer Cropscience Poncho Beta. Project Number: BCS06/DS/12. Unpublished study prepared by Bayer Crop Science LP. 5 p. |
| 47206503 | Sargent, D. (2007) Bridging Rationale for Acute Toxicity Studies on Bayer Advanced Insecticide TD Concentrate. Project Number: BA07/DS/02, BA06/DS/11. Unpublished study prepared by Bayer Advanced. 12 p. |
| 47783702 | Sargent, D. (2008) Bridging Rationale for Acute Toxicity Studies for Insecticide TD Granule. Project Number: BA08/DS/02, BA08/DS/02A. Unpublished study prepared by Bayer CropScience. 11 p. |

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

|  |  |
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| **MRID** | **Citation Reference** |
|  |  |
| 45416307 | Merkel, D. (2001) Acute Inhalation Toxicity Study in Rats--Limit Test: GUS 7047-01: Lab Project Number: 9878: P330. Unpublished study prepared by Product Safety Labs. 22 p. {OPPTS 870.1300} |
| 45422636 | Shepard, N. (1998) TI 435 Single Dose Inhalation (Head-Only) Toxicity Study in the Rat: Lab Project Number: 586/129-D6154: 109998. Unpublished study prepared by Covance Laboratories Ltd. 54 p. {OPPTS 870.1300} |
| 45422637 | Pauluhn, J. (1999) TI 435 600 FS 06568/0020 (c.n. Clothianidin) Study on Acute Inhalation in Rats According to OECD No.403: Lab Project Number: PH-28962: T7068163. Unpublished study prepared by Bayer AG. 71 p. {OPPTS 870.1300} |
| 45490708 | Hoffman, G. (2000) V-10066 50 WDG: Acute (4-Hour) Inhalation Toxicity Study in Rat via Nose-Only Exposure: Lab Project Number: 99-5429: TMN-0343: VP-21910. Unpublished study prepared by Huntingdon Life Sciences. 53 p. {OPPTS 870.1300} |
| 47007808 | Sargent, D. (2006) Bridging Rationale for Acute Toxicity Studies on Bayer Cropscience Poncho Beta. Project Number: BCS06/DS/12. Unpublished study prepared by Bayer Crop Science LP. 5 p. |
| 47206503 | Sargent, D. (2007) Bridging Rationale for Acute Toxicity Studies on Bayer Advanced Insecticide TD Concentrate. Project Number: BA07/DS/02, BA06/DS/11. Unpublished study prepared by Bayer Advanced. 12 p. |
| 47783702 | Sargent, D. (2008) Bridging Rationale for Acute Toxicity Studies for Insecticide TD Granule. Project Number: BA08/DS/02, BA08/DS/02A. Unpublished study prepared by Bayer CropScience. 11 p. |

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

|  |  |
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| **MRID** | **Citation Reference** |
|  |  |
| 45416308 | Merkel, D. (2001) Primary Eye Irritation Study in Rabbits: GUS 7047-01: Lab Project Number: 9879: P324. Unpublished study prepared by Product Safety Labs. 16 p. {OPPTS 870.2400} |
| 45422701 | Gardner, J. (1997) TI 435 Eye Irritation in the Rabbit: Lab Project Number: 586/123-1032. Unpublished study prepared by Covance Laboratories. 28 p. {OPPTS 870.2400} |
| 45422702 | Leuschner, P. (1999) Acute Eye Irritation of TI 435 00600 FS 06568/0020 by Instillation into the Conjunctival Sac of Rabbits: Lab Project Number: R 7417: T9067196: 9301/345/95. Unpublished study prepared by LPT Laboratory of Pharmacology and Toxicology. 22 p. {OPPTS 870.2400} |
| 45422814 | Leuschner, P. (1999) Acute Eye Irritation Study of TI 435-CCMT-Adduct by Instillation into the Conjunctival Sac of Rabbits: Lab Project Number: R 7682: T 1067242: 9301/391/95. Unpublished study prepared by LPT Laboratory of Pharmacology and Toxicology. 23 p. {OPPTS 870.2400} |
| 45422819 | Leuschner, P. (2001) Acute Eye Irritation Study of TI 435-TRIAZAN by Instillation into the Conjunctival Sac of Rabbits: Lab Project Number: R 7805: T7069165: 9301/423/95. Unpublished study prepared by LPT Laboratory of Pharmacology and Toxicology. 24 p. {OPPTS 870.2400} |
| 45490709 | Hoffman, G. (2000) V-10066 50 WDG: Acute Eye Irritation Study in Rabbits: Lab Project Number: 99-0603: TMN-0342A: VP-21899. Unpublished study prepared by Huntingdon Life Sciences. 29 p. {OPPTS 870.2400} |
| 47007808 | Sargent, D. (2006) Bridging Rationale for Acute Toxicity Studies on Bayer Cropscience Poncho Beta. Project Number: BCS06/DS/12. Unpublished study prepared by Bayer Crop Science LP. 5 p. |
| 47206503 | Sargent, D. (2007) Bridging Rationale for Acute Toxicity Studies on Bayer Advanced Insecticide TD Concentrate. Project Number: BA07/DS/02, BA06/DS/11. Unpublished study prepared by Bayer Advanced. 12 p. |
| 47783702 | Sargent, D. (2008) Bridging Rationale for Acute Toxicity Studies for Insecticide TD Granule. Project Number: BA08/DS/02, BA08/DS/02A. Unpublished study prepared by Bayer CropScience. 11 p. |

**81-5       Primary dermal irritation**

|  |  |
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| **MRID** | **Citation Reference** |
|  |  |
| 45416309 | Merkel, D. (2001) Primary Skin Irritation Study in Rabbits: GUS 7047-01: Lab Project Number: 9880: P326. Unpublished study prepared by Product Safety Labs. 15 p. {OPPTS 870.2500} |
| 45422703 | Gardner, J. (1997) TI 435 Skin Irritation Study in the Rabbit: Lab Project Number: 586/124-1032: 109951. Unpublished study prepared by Covance Laboratories. 26 p. |
| 45422704 | Leuschner, P. (1999) Acute Skin Irritation Test (Patch Test) of TI 435 00600 FS 06568/0020 in Rabbits: Lab Project Number: R 7416: T9067196: 9300/345/95. Unpublished study prepared by LPT Laboratory of Pharmacology and Toxicology. 20 p. {OPPTS 870.2500} |
| 45422813 | Leuschner, P. (1999) Acute Skin Irritation Test (Patch Test) of TI 435-CCMT-ADDUCT in Rabbits: Lab Project Number: R 7683: T 1067242: 9300/391/95. Unpublished study prepared by LPT Laboratory of Pharmacology and Toxicology. 21 p. {OPPTS 870.2500} |
| 45422820 | Leuschner, P. (2000) Acute Skin Irritation Test (Patch Test) of TI 435-TRIAZAN in Rabbits: Lab Project Number: R 7804: T7069165: 9300/423/95. Unpublished study prepared by LPT Laboratory of Pharmacology and Toxicology. 22 p. {OPPTS 870.2500} |
| 45490710 | Hoffman, G. (2000) V-10066 50 WDG: Acute Dermal Irritation Study in Rabbits: Lab Project Number: 99-0602: TMN-0341A: VP-21901. Unpublished study prepared by Huntingdon Life Sciences. 26 p. {870.2500} |
| 47007808 | Sargent, D. (2006) Bridging Rationale for Acute Toxicity Studies on Bayer Cropscience Poncho Beta. Project Number: BCS06/DS/12. Unpublished study prepared by Bayer Crop Science LP. 5 p. |
| 47206503 | Sargent, D. (2007) Bridging Rationale for Acute Toxicity Studies on Bayer Advanced Insecticide TD Concentrate. Project Number: BA07/DS/02, BA06/DS/11. Unpublished study prepared by Bayer Advanced. 12 p. |
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**81-6       Dermal sensitization**

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| 45422705 | Gardner, J. (1997) TI 435 Skin Sensitization Study in the Guinea Pig: Lab Project Number: 586/125-1032: 109952. Unpublished study prepared by Covance Laboratories. 44 p. {OPPTS 870.2600} |
| 45422706 | Klimetzek, V. (1999) TI 0435 600 FS 06362/0051 Study for the Skin Sensitization Effect in Guinea Pigs (Buehler Patch Test): Lab Project Number: PH-29142: T 1068313. Unpublished study prepared by Bayer AG. 25 p. {OPPTS 870.2600U |
| 45422815 | Vohr, H. (2000) TI 435-CCMT-ADDUCT Study for the Skin Sensitization Effect in Guinea Pigs (Guinea Pig Maximization Test According to Magnusson and Kligman): Lab Project Number: PH 29817: T 6069272: 110214. Unpublished study prepared by Bayer AG. 29 p. {OPPTS 870.2600} |
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| 47007808 | Sargent, D. (2006) Bridging Rationale for Acute Toxicity Studies on Bayer Cropscience Poncho Beta. Project Number: BCS06/DS/12. Unpublished study prepared by Bayer Crop Science LP. 5 p. |
| 47206503 | Sargent, D. (2007) Bridging Rationale for Acute Toxicity Studies on Bayer Advanced Insecticide TD Concentrate. Project Number: BA07/DS/02, BA06/DS/11. Unpublished study prepared by Bayer Advanced. 12 p. |
| 47783702 | Sargent, D. (2008) Bridging Rationale for Acute Toxicity Studies for Insecticide TD Granule. Project Number: BA08/DS/02, BA08/DS/02A. Unpublished study prepared by Bayer CropScience. 11 p. |

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

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

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| 45422808 | Moore, M. (2000) 4-Week Dietary Toxicity Study with TI-435 in Dogs: Lab Project Number: COVANCE 6155-106: 6155-106: 109828. Unpublished study prepared by Covance Laboratories Inc. 387 p. |
| 45422809 | Wahle, M. (2000) Technical Grade TI 435: A Subchronic Toxicity Testing Study in the Rat: Lab Project Number: 98-172-QO: 109075. Unpublished study prepared by Takeda Chemical Industries, Ltd. 999 p. |
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**82-5       Subchronic Neurotoxicity: 90-Day Study**

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| **MRID** | **Citation Reference** |
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| 45422803 | Sheets, L.; Cain, D. (2000) A Subchronic Neurotoxicity Screening Study with Technical Grade TI-435 in Fischer 344 Rats: Lab Project Number: 97-472-OM: 109400. Unpublished study prepared by Bayer Corporation. 472 p. {OPPTS 870.6200} |

**83-1       Chronic Toxicity**

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| **MRID** | **Citation Reference** |
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| 45422718 | Bernier, L. (2001) 52-Week Dietary Chronic Toxicity Study with TI-435 in Dogs (Supplement): Lab Project Number: 6155-126: 109831-1. Unpublished study prepared by Covance Laboratories Inc. 122 p. {OPPTS 870.4100} |
| 45422719 | Biegel, L. (2000) 104-Week Dietary Combined Chronic Toxicity and Carcinogenicity Study with TI-435 in Rats (Final Report): Lab Project Number: 6155-108: 109841. Unpublished study prepared by Covance Laboratories Inc. 7990 p. {OPPTS 870.4300} |
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**83-2       Oncogenicity**

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| **MRID** | **Citation Reference** |
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| 45422719 | Biegel, L. (2000) 104-Week Dietary Combined Chronic Toxicity and Carcinogenicity Study with TI-435 in Rats (Final Report): Lab Project Number: 6155-108: 109841. Unpublished study prepared by Covance Laboratories Inc. 7990 p. {OPPTS 870.4300} |
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**83-3       Teratogenicity -- 2 Species**

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| **MRID** | **Citation Reference** |
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| 45422710 | York, R. (1998) Oral (Gavage) Dosage-Range Developmental Toxicity Study of TI-435 in Rats: Lab Project Number: 1120-001P: 109996. Unpublished study prepared by Argus Research Laboratories, Inc. 134 p. {OPPTS 870.3700} |
| 45422711 | York, R. (1998) Oral (Gavage) Dosage-Range Developmental Toxicity Study of TI-435 in Rats: Lab Project Number: 1120-001: 109971. Unpublished study prepared by Argus Research Laboratories, Inc. 208 p. {OPPTS 870.3700} |
| 45422712 | York, R. (1998) Oral (Stomach Tube) Dosage-Range Developmental Toxicity Study of TI-435 in Rabbits: Lab Project Number: 1120-002P: 109997. Unpublished study prepared by Argus Research Laboratories, Inc. 109 p. {OPPTS 870.3700} |
| 45422713 | York, R. (1998) Oral (Stomach Tube) Dosage-Range Developmental Toxicity Study of TI-435 in Rabbits: Lab Project Number: 1120-002: 109970. Unpublished study prepared by Argus Research Laboratories, Inc. 268 p. {OPPTS 870.3700} |

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

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| **MRID** | **Citation Reference** |
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| 45422714 | Astroff, A. (2000) A Pilot Reproductive Toxicity Study with TI-435 in the Sprague-Dawley Rat: Lab Project Number: 97-972-LJ: 108035. Unpublished study prepared by Bayer Corporation. 340 p. |
| 45422715 | Astroff, A.; Freshwater, K. (2000) A Two Generation Reproductive Toxicity Study with TI-435 in the Sprague-Dawley Rat: Lab Project Number: 98-672-PF: 109282. Unpublished study prepared by Bayer Corporation. 1047 p. {OPPTS 870.3800} |
| 45422716 | Young, A. (2001) A Two Generation Reproductive Toxicity Study with TI-435 in the Sprague-Dawley Rat (Supplement): Lab Project Number: 109282-1. Unpublished study prepared by Bayer Corporation. 12 p. {OPPTS 870.3800} |

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

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| **MRID** | **Citation Reference** |
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| 46339010 | Beigel, L. (2004) 104-Week Dietary Combined Chronic Toxicity and Carcinogenicity Study with TI-435 in Rats (Supplement No. 2): Supplement to Final Study. Project Number: 6155/108. Unpublished study prepared by Covance Laboratories, Inc. 114 p. |

**83-6       Developmental Neurotoxicity**

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| **MRID** | **Citation Reference** |
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| 45422804 | Hoberman, A. (2000) Developmental Neurotoxicity Study of TI 435 Administered Orally via Diet to CRL: CD Presumed Pregnant Rats: Lab Project Number: 110218: ARGUS 1120-003: 1120-003. Unpublished study prepared by Argus Research Laboratories, Inc. 1421 p. {OPPTS 870.6300} |

**84-2       Interaction with Gonadal DNA**

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| **MRID** | **Citation Reference** |
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| 45422724 | Dawkes, N. (2000) BN0335E2 Reverse Mutation in Five Histidine-Requiring Strains of Salmonella typhimurium: Lab Project Number: 586/225-D5140. Unpublished study prepared by Covance Laboratories Ltd. 54 p. {OPPTS 870.5265} |
| 45422725 | Dawkes, N. (1999) TZMU Reverse Mutation in Five Histidine-Requiring Strains of Salmonella typhimurium: Lab Project Number: 586/150-D5140: 110202. Unpublished study prepared by Covance Laboratories Ltd. 52 p. {OPPTS 870.5265} |
| 45422726 | Dawkes, N. (1999) Methyl Guanidine Reverse Mutation in Five Histidine-Requiring Strains of Salmonella typhimurium: Lab Project Number: 586/151-D5140: 110201. Unpublished study prepared by Covance Laboratories Ltd. 52 p. {OPPTS 870.5265} |
| 45422727 | Dawkes, N. (1999) TZNG Reverse Mutation in Five Histidine-Requiring Strains of Salmonella typhimurium: Lab Project Number: 586/165-D5140: 110204. Unpublished study prepared by Covance Laboratories Ltd. 55 p. {OPPTS 870.5265} |
| 45422728 | Dawkes, N. (1999) TMG Reverse Mutation in Five Histidine-Requiring Strains of Salmonella typhimurium: Lab Project Number: 586/166-D5140: 110203. Unpublished study prepared by Covance Laboratories Ltd. 56 p. {OPPTS 870.5265} |
| 45422729 | Dawkes, N. (2000) BN0230M Reverse Mutation in Five Histidine-Requiring Strains of Salmonella typhimurium: Lab Project Number: 586/224-D5140: 110239. Unpublished study prepared by Covance Laboratories Ltd. 54 p. {OPPTS 870.5265} |
| 45422730 | Dawkes, N. (1999) MAI Reverse Mutation in Five Histidine-Requiring Strains of Salmonella typhimurium: Lab Project Number: 586/177-D5140: 110205. Unpublished study prepared by Covance Laboratories Ltd. 55 p. {OPPTS 870.5265} |
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| 45422732 | Otsuka, M. (1990) Bacterial Reverse Mutation Test of TIR-435: Lab Project Number: K01-0820: 109975. Unpublished study prepared by Hita Research Laboratories. 28 p. {OPPTS 870.5100} |
| 45422733 | Herbold, B. (1999) TI 435 Salmonella/Microsome Test Plate Incorporation and Preincubation Method: Lab Project Number: 28849: T 8053884: 109990. Unpublished study prepared by Bayer AG. 58 p. {OPPTS 870.5100} |
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| 45422735 | Otsuka, M. (1990) DNA Repair Test of TIR-435 in Bacillus subtillis: Lab Project Number: K02-0096: 109978. Unpublished study prepared by Hita Research Laboratories. 22 p. {OPPTS 870.5500} |
| 45422736 | Wright, N. (2000) TI-435 Chromosome Aberration Test in CHGL Cells In Vitro: Lab Project Number: 178/111: 110232. Unpublished study prepared by Safepharm Laboratories Limited. 73 p. {OPPTS 870.5100} |
| 45422737 | Durwood, R. (2000) TI-435 L5178Y TK +/-Mouse Lymphoma Assay: Lab Project Number: 178/112: 109830. Unpublished study prepared by Safepharm Laboratories Limited. 40 p. {OPPTS 870.5300} |
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| 45422740 | Durwood, R. (2000) TI-435 Micronucleus Test in the Mouse: Lab Project Number: 178/113: 109969. Unpublished study prepared by Safepharm Laboratories Limited. 47 p. {OPPTS 870.5395} |
| 45422812 | Herbold, B. (2001) N-Methylnitroguanidin Salmonella/Microsome Test Plate Incorporation and Preincubation Method: Lab Project Number: PH 30755: T 0069528: 110246. Unpublished study prepared by Bayer AG. 49 p. {OPPTS 870.5100} |
| 45422816 | Herbold, B. (2000) TI 435-CCMT-ADDUCT Salmonella/Microsome Test Plate Incorporation and Preincubation Method: Lab Project Number: PH 30144: T 8068860: 110216. Unpublished study prepared by Bayer AG. 51 p. {OPPTS 870.5100} |
| 45422817 | Herbold, B. (2000) TI 435-Benzyltriazinone Salmonella/Microsome Test Plate Incorporation and Preincubation Method: Lab Project Number: PH 30065: T 6068886: 110215. Unpublished study prepared by Bayer AG. 51 p. {OPPTS 870.510} |
| 45422818 | Herbold, B. (2001) TI 435-Hexahydropyrimidine Salmonella/Microsome Test Plate Incorporation Method: Lab Project Number: PH 30734: T 2069890: 110243. Unpublished study prepared by Bayer Ag. 51 p. {OPPTS 870.5100} |
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**85-1       General metabolism**

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| 45422806 | Mikata, K.; Ohta, K. (2000) Determination of Metabolites of TI-435 in Major Tissues of Rats: Lab Project Number: 110286. Unpublished study prepared by Takeda Chemical Industries, Ltd. 13 p. |
| 45422807 | Mikata, K.; Nagasaki, H.; Ohta, K. (2000) Absorption, Distribution, Metabolism and Excretion of TI-435 in Mice: Lab Project Number: DTOX063: 110491. Unpublished study prepared by Takeda Chemical Industries, Ltd. 18 p. {OPPTS 870.7485} |

**85-3       Dermal Penetration/Absorption**

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| **MRID** | **Citation Reference** |
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**122-1       Seed Germination/Seedline Emergence and Vegetable Vigor**

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| **MRID** | **Citation Reference** |
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| 45422501 | Brignole, A.; Porch, J.; Krueger, H. (2000) TI-435 50% WDG: A Toxicity Test to Determine the Effects of the Test Substance on Seedling Emergence of Ten Species of Plants: Lab Project Number: 197-126: 110165. Unpublished study prepared by Wildlife International, Ltd. 77 p. {OPPTS 850.4100 and 850.4225} |
| 45422502 | Brignole, A.; Porch, J.; Krueger, H. et al. (2000) TI-435 50% WDG: A Toxicity Test to Determine the Effects of the Test Substance on Vegetative Vigor of Ten Species of Plants: Lab Project Number: 197-127: 110166. Unpublished study prepared by Wildlife International, Ltd. 116 p. {OPPTS 850.4150} |

**122-2       Aquatic plant growth**

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| **MRID** | **Citation Reference** |
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| 45422503 | Palmer, S.; MacGregor, J.; Krueger, H. et al. (2000) TI-435 Technical: A 14-Day Static-Renewal Toxicity Test with Duckweed (Lemna gibba G3): Lab Project Number: 149A-125: T5883701: 110005. Unpublished study prepared by Wildlife International, Ltd. 45 p. {OPPTS 850.4400} |
| 45422505 | Dorgerloh, M. (2000) TI-435 Thiazolylmethylguanidine-Influence on the Growth of the Green Alga, Selenastrum capricornutum: Lab Project Number: E 323 1875-9: 110169. Unpublished study prepared by Bayer AG. 47 p. {OPPTS 850.5400} |
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**123-1       Seed germination/seedling emergence and vegetative vigor**

|  |  |
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| **MRID** | **Citation Reference** |
|  |  |
| 45422501 | Brignole, A.; Porch, J.; Krueger, H. (2000) TI-435 50% WDG: A Toxicity Test to Determine the Effects of the Test Substance on Seedling Emergence of Ten Species of Plants: Lab Project Number: 197-126: 110165. Unpublished study prepared by Wildlife International, Ltd. 77 p. {OPPTS 850.4100 and 850.4225} |

**123-2       Aquatic plant growth**

|  |  |
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| **MRID** | **Citation Reference** |
|  |  |
| 45422504 | Sutherland, C.; MacGregor, J.; Krueger, H. (2000) TI-435 Technical: A 5-Day Toxicity Test with the Freshwater Alga (Selenastrum capricornutum): Lab Project Number: 197A-102: 110164. Unpublished study prepared by Wildlife International, Ltd. 57 p. |
| 48720601 | Banman, C.; Howerton, J.; Lam, C. (2012) Toxicity of Clothianidin to the Blue-Green Algae Anabaena flos-aquae. Project Number: EBTIP057, M/421987/01/1. Unpublished study prepared by Bayer CropScience. 58p. |
| 48720602 | Banman, C.; Howerton, J.; Lam, C. (2012) Toxicity of Clothianidin Technical to the Freshwater Diatom Navicula pelliculosa. Project Number: EBTIP059, M/421991/01/1. Unpublished study prepared by Bayer CropScience. 59p. |
| 48720603 | Banman, C.; Howerton, J.; Lam, C. (2012) Toxicity of Clothianidin to the Saltwater Diatom Skeletonema costatum. Project Number: EBTIP058, M/421990/01/1. Unpublished study prepared by Bayer CropScience. 58p. |

**132-1       Dissipation of Dislodgeable Foliar & Soil Residues**

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| **MRID** | **Citation Reference** |
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| 45480404 | Schreier, T. (2001) Dissipation of Dislodgeable Folliar Clothianidin Residues from Pesticide Treated Apple Foliage: Lab Project Number: VP-21400: TMN-0423: V-21400-A. Unpublished study prepared by Valent U.S.A. Corporation. 130 p. {OPPTS 875.2100} |

**133-3       Dermal passive dosimetry expo**

|  |  |
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| **MRID** | **Citation Reference** |
|  |  |
| 45416312 | McFadden, D. (2001) Use and Occupational Exposure Information for Titan FL: Final Report: Lab Project Number: 01-101. Unpublished study prepared by Gustafson LLC. 31 p. |

**133-4       Inhal. passive dosimetry expo**

|  |  |
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| **MRID** | **Citation Reference** |
|  |  |
| 45416312 | McFadden, D. (2001) Use and Occupational Exposure Information for Titan FL: Final Report: Lab Project Number: 01-101. Unpublished study prepared by Gustafson LLC. 31 p. |

**141-1       Honey bee acute contact**

|  |  |
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| **MRID** | **Citation Reference** |
|  |  |
| 45422426 | Weyman, G. (1998) TI-435 Technical: Acute Contact and Oral Toxicity to Honey Bees: Lab Project Number: 586/135: 110049. Unpublished study prepared by Covance Laboratories Ltd. 39 p. |
| 45422431 | Schmuck, R.; Schoning, R. (2000) Residues of TI 435 in Nectar. Blossoms, Pollen and Honey Bees Sampled from a Summer Rape Field in Sweden and Effects of These Residues on Foraging Honeybees: Lab Project Number: E370 1361-1: 110282. Unpublished study prepared by Bayer AG. 30 p. |
| 45422432 | Schmuck, R.; Schoning, R. (2000) Residues of TI 435 in Nectar. Blossoms, Pollen and Honey Bees Sampled from a British Summer Rape Field and Effects of These Residues on Foraging Honeybees: Lab Project Number: E 370 1657-6: 110024. Unpublished study prepared by Bayer AG. 31 p. |
| 45422433 | Schmuck, R.; Schoning, R. (2000) Residues of TI 435 in Nectar. Blossoms, Pollen and Honey Bees Sampled from a French Summer Rape Field and Effects of These Residues on Foraging Honeybees: Lab Project Number: E 370 1359-8: 110046. Unpublished study prepared by Bayer AG. 29 p. |
| 45422434 | Maus, C.; Schoning, R. (2001) Effect of Diet (Sugar Solution) spiked with TI 435 Technical on Behaviour and Mortality of Honey Bees (Apis mellifera) and on the Weight Development of Bee Colonies Under Field Conditions: Lab Project Number: E370 1911-2: 110294. Unpublished study prepared by Bayer AG. 52 p. |
| 45422435 | Scott-Dupree, C.; Spivak, M.; Bruns, G. et al. (2001) The Impact of GAUCHO and TI-435 Seed-Treated Canola on Honey Bees, Apis mellifera L: Lab Project Number: 110403. Unpublished study prepared by University of Guelph, University of Minnesota, and Enviro-Test Laboratories. 131 p. |
| 45422436 | Maus, C.; Schoning, R. et al. (2001) Residue Levels of TI-435 FS 600 and its Relevent Metabolites in Nectar, Blossoms, and Pollen of Summer Rape from Dressed Seeds and Effects of These Residues on Foraging Honeybees (Test Location: Farmland Laacher Hof): Lab Project Number: 110295: E 319 1839-4. Unpublished study prepared by Bayer AG. 34 p. |
| 45422437 | Maus, C.; Schoning, R. et al. (2001) Residue Levels of TI-435 FS 600 and its Relevant Metabolites in Nectar, Blossoms, and Pollen of Summer Rape from Dressed Seeds and Effects of These Residues on Foraging Honeybees (Test Location: Farmland Hofchen): Lab Project Number: E319 1836-1: 110177. Unpublished study prepared by Bayer AG. 36 p. |
| 45422440 | Maus, C.; Schoning, R. et al. (2001) Effects of TI-435 Technical Residues in Pollen on the Development of Small Bee Colonies and on Behavior and Mortality of Honey Bees: Lab Project Number: E319 1833-8: 110059. Unpublished study prepared by Bayer AG. 60 p. |

**141-2       Honey bee residue on foliage**

|  |  |
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| **MRID** | **Citation Reference** |
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| 45490702 | Mayer, D. (2000) V-10066: Honey Bee (Apis mellifera L.) Toxicity of V-10066 Residues on Foliage: Lab Project Number: 99-005: TMN-0215: V-99-21346. Unpublished study prepared by The Bee Group. 82 p. {OPPTS 850.3030} |

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

|  |  |
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| **MRID** | **Citation Reference** |
|  |  |
| 45422427 | Wilkins, P. (2000) TI-435 Metabolite TMG: Acute Oral Toxicity to Honey Bees (Apis mellifera): Lab Project Number: GQ3201: 110054. Unpublished study prepared by Central Science Laboratory. 39 p. |
| 45422428 | Wilkins, P. (2000) TI-435 Metabolite MNG: Acute Oral Toxicity to Honey Bees (Apis mellifera): Lab Project Number: GQ3203: 110056. Unpublished study prepared by Central Science Laboratory. 40 p. |
| 45422429 | Wilkins, P. (2000) TI-435 Metabolite TZMU: Acute Oral Toxicity to Honey Bees (Apis mellifera): Lab Project Number: GQ3202: 110055. Unpublished study prepared by Central Science Laboratory. 39 p. |
| 45422430 | Wilkins, P. (2000) TI-435 Metabolite TZMG: Acute Oral Toxicity to Honey Bees (Apis mellifera): Lab Project Number: GQ3204: 110057. Unpublished study prepared by Central Science Laboratory. 42 p. |

**142-1       Acute Toxicity to Aquatic Insects**

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| **MRID** | **Citation Reference** |
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**161-1       Hydrolysis**

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**161-2       Photodegradation-water**

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| **MRID** | **Citation Reference** |
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**161-3       Photodegradation-soil**

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**162-3       Anaerobic aquatic metab.**

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**162-4       Aerobic aquatic metab.**

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**163-1       Leach/adsorp/desorption**

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| 45422311 | Lewis, C. (2000) (Carbon 14)TI-435: Adsorption/Desorption in Soil: Lab Project Number: 586/139: 110254. Unpublished study prepared by Covance Laboratories Ltd. 123 p. |
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| 45422314 | Mondel, M.; Hein, W. (2000) Adsorption/Desorption of (Carbon 14)-TZNG, a Degradate of TI-435, on Five Different Soils: Lab Project Number: TAK01: 110255. Unpublished study prepared by Staatliche Lehr-und Forschungsanstalt fur Landwirtschaft. 56 p. |
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| 45422508 | Stupp, H. (2001) Degradation and Translocation Behavior of the Insecticide TI-435 in a Lysimeter under Field Conditions: Lab Project Number: M 133 0848-7: 110128. Unpublished study prepared by Bayer AG. 87 p. |

**164-1       Terrestrial field dissipation**

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| **MRID** | **Citation Reference** |
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| 45422603 | Leimkuehler, W. (2001) Independent Laboratory Validation of Bayer Report Number 110263 for the Determination of TI-435 and the Degradates, TZNG, TZMU, MNG and TMG in Soil by High-Performance Liquid Chromatography Tandem Mass Spectrometry (HPLC/MS/MS): Lab Project Number: T5112102: 110275. Unpublished study prepared by Bayer Corporation. 46 p. |
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| 45422612 | Schramel, O. (2000) Determination of the Storage Stability of TI-435 and of the Metabolites TZNG, TZMU, TMG, and MNG in Soil-Interim Report (Supplement): Lab Project Number: P 64190023: 110260. Unpublished study prepared by Bayer AG. 61 p. |
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| 45708702 | Carringer, S. (2002) Terrestrial Field Soil Dissipation of TM-44401 in Established Turf in Mississippi: Final Study Report: Lab Project Number: V-99-21186: 11028-1: RM-39V. Unpublished study prepared by Ricerca, LLC. 438 p. |

**164-3       Forest field dissipation**

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**165-1       Confined rotational crop**

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| **MRID** | **Citation Reference** |
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**165-2       Field rotational crop**

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| **MRID** | **Citation Reference** |
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**166-1       Ground water-small prospective**

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| **MRID** | **Citation Reference** |
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**166-2       Ground water-small retrospective**

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**171-11       Tobacco Uses: Total Residues and Pyrolysis Products**

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| **MRID** | **Citation Reference** |
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**171-4B       Residue Analytical Methods**

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| **MRID** | **Citation Reference** |
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| 45422305 | Weber, H. (2000) Enforcement Method 00657 for the Determination of the Residues of TI-435 in Plant Material: Lab Project Number: BAY-0007V: AZ.G00-0063: 110288. Unpublished study prepared by Chemische Laboratorien GmbH. 51 p. {OPPTS 860.1340} |
| 45422306 | Weber, H. (2000) Enforcement Method 00656 for the Determination of the Residues of TI-435 in Animal Matrices: Lab Project Number: BAY-008V: AZ.G00-0064: 110287. Unpublished study prepared by Chemische Laboratorien GmbH. 46 p. {OPPTS 860.1340} |
| 45422536 | Nublein, F. (1999) Residue Analytical Method 00552 for the Determination of TI 435 in Plant Materials by LC-MS/MS: Lab Project Number: P 612 8 2015: 109240. Unpublished study prepared by Bayer AG. 87 p. {OPPTS 860.1340} |
| 45422537 | Nublein, F. (2000) Modification M001 of the Method 00552 for the Determination of Residues of TI 435 in/on Plant Materials: Lab Project Number: P 612 9 2031: 109240-1. Unpublished study prepared by Bayer AG. 22 p. {OPPTS 860.1340} |
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| 45422540 | Haas, M. (2000) Extraction Efficiency Testing of the Residue for the Determination of TI-435 Residues in Corn and in Apple Using Aged Radioactive Residues: Lab Project Number: 110268: M 9991047-9. Unpublished study prepared by Bayer AG. 49 p. |
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| 45422607 | Gould, T.; Murphy, I. (2001) Additional Validation Data for the Analytical Residue Method for the Detection of TI-435, TZG, TZU, and PTMG Residues in Animal Matrices: Lab Project Number: 109793-1. Unpublished study prepared by Bayer Corporation. 19 p. {OPPTS 860.1340} |
| 45422608 | Wehrman, J. (2000) Independent Laboratory Validation of TI-435 Animal Method Entitled, Validation of the Residue Analytical Method 00624 for the Determination of TI-435, TZG, TZU, and PTMG Residues in Animal Materials by HPLC-MS/MS: Lab Project Number: T5110201: 109747. Unpublished study prepared by ABC Laboratories, Inc. 73 p. {OPPTS 860.1340} |
| 45422609 | Ishii, Y. (2000) Extraction Efficiency Testing of the Residue Method for the Determination of TI-435 Residues in Animal Tissues Using Aged Radioactive Residues: Lab Project Number: M 9991036-7: 110273. Unpublished study prepared by Bayer AG. 54 p. {OPPTS 860.1340} |
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**171-4C       Magnitude of the Residue [by commodity]**

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| **MRID** | **Citation Reference** |
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| 45422425 | Hancock, G.; Gould, T. (2001) TI-435 Residue Levels in Corn Seeds and Seedlings: Lab Project Number: T519CO03: 110162. Unpublished study prepared by Bayer Corporation. 98 p. |
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| 45422614 | Duah, F. (2000) TI-435 600 FS Magnitude of the Residue in Field, Pop, and Sweet Corn: Lab Project Number: T519CO01: 109724. Unpublished study prepared by Bayer Corporation and ADPEN Laboratories, INc. 341 p. {OPPTS 860.1500} |
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**171-4A2       Nature of the Residue in Plants**

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| **MRID** | **Citation Reference** |
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| 45422432 | Schmuck, R.; Schoning, R. (2000) Residues of TI 435 in Nectar. Blossoms, Pollen and Honey Bees Sampled from a British Summer Rape Field and Effects of These Residues on Foraging Honeybees: Lab Project Number: E 370 1657-6: 110024. Unpublished study prepared by Bayer AG. 31 p. |
| 45422433 | Schmuck, R.; Schoning, R. (2000) Residues of TI 435 in Nectar. Blossoms, Pollen and Honey Bees Sampled from a French Summer Rape Field and Effects of These Residues on Foraging Honeybees: Lab Project Number: E 370 1359-8: 110046. Unpublished study prepared by Bayer AG. 29 p. |
| 45422436 | Maus, C.; Schoning, R. et al. (2001) Residue Levels of TI-435 FS 600 and its Relevent Metabolites in Nectar, Blossoms, and Pollen of Summer Rape from Dressed Seeds and Effects of These Residues on Foraging Honeybees (Test Location: Farmland Laacher Hof): Lab Project Number: 110295: E 319 1839-4. Unpublished study prepared by Bayer AG. 34 p. |
| 45422437 | Maus, C.; Schoning, R. et al. (2001) Residue Levels of TI-435 FS 600 and its Relevant Metabolites in Nectar, Blossoms, and Pollen of Summer Rape from Dressed Seeds and Effects of These Residues on Foraging Honeybees (Test Location: Farmland Hofchen): Lab Project Number: E319 1836-1: 110177. Unpublished study prepared by Bayer AG. 36 p. |
| 45422438 | Maus, C.; Schoning, R. et al. (2001) Residue Levels of TI-435 FS 600 and its Relevant Metabolites in Pollen of Maize Plants from Dressed Seeds (Test Location: Farmland Laacher Hof): Lab Project Number: E319 1840-: 110023. Unpublished study prepared by Bayer AG. 30 p. |
| 45422439 | Maus, C.; Schoning, R. et al. (2001) Residue Levels of TI-435 FS 600 and its Relevant Metabolites in Pollen of Maize Plants from Dressed Seeds (Test Location: Farmland Hofchen): Lab Project Number: E319 1835-0: 110048. Unpublished study prepared by Bayer AG. 30 p. |
| 45422527 | Ishii, Y. (2000) Metabolism of TI-435 in Corn: Lab Project Number: M 1730847-0: 109881. Unpublished study prepared by Bayer AG. 109 p. {OPPTS 860.1300} |
| 45422528 | Ishii, Y. (2000) Metabolism of (Thiazolyl-2-(Carbon 14)) in Corn (Second-Label Study): Lab Project Number: M 1730966-2: 109741. Unpublished study prepared by Bayer AG. 104 p. {OPPTS 860.1300} |
| 45422529 | Langford-Pollard, A. (2000) (Nitroimino-(Carbon 14)) TI-435 Sugar Beet Metabolism Seed Treatment: Lab Project Number: 110269. Unpublished study prepared by Huntingdon Life Sciences, Ltd. 172 p. {OPPTS 860.1300} |
| 45422530 | Ishii, Y. (2000) Metabolism of TI-435 in Tomatoes Using a GR Formulation: Lab Project Number: M1730871-7: 109598. Unpublished study prepared by Bayer AG. 43 p. {OPPTS 860.1300} |
| 45422531 | Ishii, Y. (1998) Metabolism of TI-435 in Tomatoes Using a SC Formulation: Lab Project Number: M 1730870-6: 107928. Unpublished study prepared by Bayer Corporation and Bayer AG. 45 p. {OPPTS 860.1300} |
| 45422532 | Babczinski, P. (1999) Metabolism of TI-435 in Apples Part 1 of 2: Apple Fruits: Lab Project Number: M 1730845-8: 109733. Unpublished study prepared by Bayer AG. 63 p. {OPPTS 860.1330} |
| 45422533 | Babczinski, P. (1999) Metabolism of TI-435 in Apples Part 2 of 2: Apple Leaves: Lab Project Number: M 1730845-8: 109733-1. Unpublished study prepared by Bayer AG. 69 p. {OPPTS 860.1300} |
| 45422534 | Spiegel, K.; Weber, H. (2000) (Nitroimino-(Carbon 14))TI-435 Absorption, Distribution, Excretion, and Metabolism in the Lactating Goat: Lab Project Number: M01819083: 110267. Unpublished study prepared by Bayer AG. 248 p. {OPPTS 860.1300} |

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

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| **MRID** | **Citation Reference** |
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**201-1       Droplet size spectrum**

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| **MRID** | **Citation Reference** |
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| 45490701 | Hewitt, A. (2001) Orchard Airblast Atomization Droplet Size Spectra for V-10066/TI-435 50 WDG: Lab Project Number: V00-22832: TMN-0244. Unpublished study prepared by Stewart Agricultural Research Services, Inc. 50 p. |

**231       Est. Dermal Exposure - Outdoors**

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| **MRID** | **Citation Reference** |
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**810.1000       Overview, Definitions, and General Considerations**

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

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**830.1620       Description of production process**

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**830.1650       Description of formulation process**

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**830.1670       Discussion of formation of impurities**

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**830.1700       Preliminary analysis**

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**830.1750       Certified limits**

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**830.6304       Odor**

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**830.6313       Stability to normal and elevated temperatures, metals, and metal ions**

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**830.6314       Oxidizing or reducing action**

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**830.6315       Flammability**

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**830.6316       Explodability**

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**830.6317       Storage stability**

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**830.6319       Miscibility**

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**830.6320       Corrosion characteristics**

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**830.6321       Dielectric breakdown voltage**

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**830.7000       pH**

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**830.7050       UV/Visible absorption**

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**830.7100       Viscosity**

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| 50713307 | Nie, C. (2020) Self-Certification of the Summary of Physical and Chemical Properties of V-10170-VC2100 Insecticide. Project Number: V/201885. Unpublished study prepared by Valent U.S.A., LLC. 7p. |
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| 51097801 | Thompson, D. (2020) Product Chemistry of MGK Formula 3113. Project Number: GLP/3401. Unpublished study prepared by McLaughlin Gormley King Company, D/B/A MGK. 65p. |
| 51134901 | Thompson, D. (2020) Product Chemistry of MGK Formula 3181. Project Number: GLP/3417. Unpublished Study Prepared by McLaughlin Gormley King Company, D/B/A MGK. 18p. |
| 51205301 | Thompson, D. (2020) Product Chemistry of Darlex Insecticide. Unpublished study prepared by McLaughlin Gormley King Company, D/B/A MGK. 39p. |
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**830.7200       Melting point/melting range**

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**830.7220       Boiling point/boiling range**

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**830.7300       Density/relative density**

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| 51205301 | Thompson, D. (2020) Product Chemistry of Darlex Insecticide. Unpublished study prepared by McLaughlin Gormley King Company, D/B/A MGK. 39p. |
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| 51300501 | Thompson, D. (2020) Product Chemistry of MGK Formula 31751. Project Number: GLP/3383. Unpublished Study Prepared by McLaughlin Gormley King Company. 41p. |
| 51300601 | Thompson, D. (2020) Product Chemistry of MGK Formula 31761. Project Number: GLP/3384. Unpublished Study Prepared by McLaughlin Gormley King Company. 20p. |
| 51428303 | Srinivas, S. (2021) Determination of Accelerated Storage Stability of Clothianidin 48% FS. Project Number: 20639. Unpublished Study Prepared by Palamur Biosciences Private Limited. 60p. |

**830.7370       Dissociation constants in water**

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| **MRID** | **Citation Reference** |
|  |  |
| 47662301 | Huchet, G. (2008) Product Chemistry of Bayer Advanced Flower, Rose and Shrub Care III. Project Number: BR/2654, M/307207/01/1, 08FD075. Unpublished study prepared by Bayer CropScience. 271 p. |
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**830.7520       Particle size, fiber length, and diameter distribution**

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**830.7550       Partition coefficient (n-octanol/water), shake flask method**

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| 50207203 | Nie, C. (2016) Physical and Chemical Properties of V-10395, V/16/4001. Project Number: 201600173, VP/40001. Unpublished study prepared by Valent Technical Center. 41p. |
| 50712903 | Nie, C. (2020) Self-Certification of the Summary of Physical and Chemical Properties of V-10503 FS. Project Number: V/201523. Unpublished study prepared by Valent U.S.A., LLC. 7p. |
| 50713307 | Nie, C. (2020) Self-Certification of the Summary of Physical and Chemical Properties of V-10170-VC2100 Insecticide. Project Number: V/201885. Unpublished study prepared by Valent U.S.A., LLC. 7p. |
| 51243905 | Baptiste, C. (2018) Physical and Chemical Properties of One Batch of TC: Final Report. Project Number: R/B7163. Unpublished study prepared by Anadiag S.A. and Defitraces. 107p. |
| 51428304 | Hardie, R. (2021) Sharda Clothianidin 48% FS: Product Chemistry - Group B: Request for Waiver for Certain Physical / Chemical Properties Data. Unpublished Study Prepared by Sharda USA LLC. 5p. |

**830.7560       Partition coefficient (n-octanol/water), generator column method**

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| **MRID** | **Citation Reference** |
|  |  |
| 47662301 | Huchet, G. (2008) Product Chemistry of Bayer Advanced Flower, Rose and Shrub Care III. Project Number: BR/2654, M/307207/01/1, 08FD075. Unpublished study prepared by Bayer CropScience. 271 p. |
| 47783701 | Huchet, G. (2008) Product Chemistry of Insecticide TD Granule. Project Number: BR2632, FD05808, FD05908. Unpublished study prepared by Bayer CropScience. 246 p. |
| 49372006 | Charlton, R. (2014) INTEGO SUITE Neutral Seed Protectant: Physical and Chemical Properties Waiver Requests. Project Number: 201400133, VP/38876. Unpublished study prepared by Valent U.S.A. Corporation. 6p. |
| 49705702 | Nie, C. (2016) Physical and Chemical Properties of INTEGO SUITE Cereals OF. Project Number: 201600015, VP/39141. Unpublished study prepared by Valent U.S.A. Corporation. 42p. |
| 50207203 | Nie, C. (2016) Physical and Chemical Properties of V-10395, V/16/4001. Project Number: 201600173, VP/40001. Unpublished study prepared by Valent Technical Center. 41p. |
| 50712903 | Nie, C. (2020) Self-Certification of the Summary of Physical and Chemical Properties of V-10503 FS. Project Number: V/201523. Unpublished study prepared by Valent U.S.A., LLC. 7p. |
| 50713307 | Nie, C. (2020) Self-Certification of the Summary of Physical and Chemical Properties of V-10170-VC2100 Insecticide. Project Number: V/201885. Unpublished study prepared by Valent U.S.A., LLC. 7p. |
| 51428304 | Hardie, R. (2021) Sharda Clothianidin 48% FS: Product Chemistry - Group B: Request for Waiver for Certain Physical / Chemical Properties Data. Unpublished Study Prepared by Sharda USA LLC. 5p. |

**830.7570       Partition coefficient (n-octanol/water), estimation by liquid chromatography**

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| **MRID** | **Citation Reference** |
|  |  |
| 47662301 | Huchet, G. (2008) Product Chemistry of Bayer Advanced Flower, Rose and Shrub Care III. Project Number: BR/2654, M/307207/01/1, 08FD075. Unpublished study prepared by Bayer CropScience. 271 p. |
| 47783701 | Huchet, G. (2008) Product Chemistry of Insecticide TD Granule. Project Number: BR2632, FD05808, FD05908. Unpublished study prepared by Bayer CropScience. 246 p. |
| 49372006 | Charlton, R. (2014) INTEGO SUITE Neutral Seed Protectant: Physical and Chemical Properties Waiver Requests. Project Number: 201400133, VP/38876. Unpublished study prepared by Valent U.S.A. Corporation. 6p. |
| 49705702 | Nie, C. (2016) Physical and Chemical Properties of INTEGO SUITE Cereals OF. Project Number: 201600015, VP/39141. Unpublished study prepared by Valent U.S.A. Corporation. 42p. |
| 50207203 | Nie, C. (2016) Physical and Chemical Properties of V-10395, V/16/4001. Project Number: 201600173, VP/40001. Unpublished study prepared by Valent Technical Center. 41p. |
| 50712903 | Nie, C. (2020) Self-Certification of the Summary of Physical and Chemical Properties of V-10503 FS. Project Number: V/201523. Unpublished study prepared by Valent U.S.A., LLC. 7p. |
| 50713307 | Nie, C. (2020) Self-Certification of the Summary of Physical and Chemical Properties of V-10170-VC2100 Insecticide. Project Number: V/201885. Unpublished study prepared by Valent U.S.A., LLC. 7p. |
| 51428304 | Hardie, R. (2021) Sharda Clothianidin 48% FS: Product Chemistry - Group B: Request for Waiver for Certain Physical / Chemical Properties Data. Unpublished Study Prepared by Sharda USA LLC. 5p. |

**830.7840       Water solubility: Column elution method, shake flask method**

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| **MRID** | **Citation Reference** |
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| 47662301 | Huchet, G. (2008) Product Chemistry of Bayer Advanced Flower, Rose and Shrub Care III. Project Number: BR/2654, M/307207/01/1, 08FD075. Unpublished study prepared by Bayer CropScience. 271 p. |
| 47783701 | Huchet, G. (2008) Product Chemistry of Insecticide TD Granule. Project Number: BR2632, FD05808, FD05908. Unpublished study prepared by Bayer CropScience. 246 p. |
| 49372006 | Charlton, R. (2014) INTEGO SUITE Neutral Seed Protectant: Physical and Chemical Properties Waiver Requests. Project Number: 201400133, VP/38876. Unpublished study prepared by Valent U.S.A. Corporation. 6p. |
| 49705702 | Nie, C. (2016) Physical and Chemical Properties of INTEGO SUITE Cereals OF. Project Number: 201600015, VP/39141. Unpublished study prepared by Valent U.S.A. Corporation. 42p. |
| 50207203 | Nie, C. (2016) Physical and Chemical Properties of V-10395, V/16/4001. Project Number: 201600173, VP/40001. Unpublished study prepared by Valent Technical Center. 41p. |
| 50712903 | Nie, C. (2020) Self-Certification of the Summary of Physical and Chemical Properties of V-10503 FS. Project Number: V/201523. Unpublished study prepared by Valent U.S.A., LLC. 7p. |
| 50713307 | Nie, C. (2020) Self-Certification of the Summary of Physical and Chemical Properties of V-10170-VC2100 Insecticide. Project Number: V/201885. Unpublished study prepared by Valent U.S.A., LLC. 7p. |
| 51243905 | Baptiste, C. (2018) Physical and Chemical Properties of One Batch of TC: Final Report. Project Number: R/B7163. Unpublished study prepared by Anadiag S.A. and Defitraces. 107p. |
| 51428304 | Hardie, R. (2021) Sharda Clothianidin 48% FS: Product Chemistry - Group B: Request for Waiver for Certain Physical / Chemical Properties Data. Unpublished Study Prepared by Sharda USA LLC. 5p. |

**830.7860       Water solubility, generator column method**

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| **MRID** | **Citation Reference** |
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| 47662301 | Huchet, G. (2008) Product Chemistry of Bayer Advanced Flower, Rose and Shrub Care III. Project Number: BR/2654, M/307207/01/1, 08FD075. Unpublished study prepared by Bayer CropScience. 271 p. |
| 47783701 | Huchet, G. (2008) Product Chemistry of Insecticide TD Granule. Project Number: BR2632, FD05808, FD05908. Unpublished study prepared by Bayer CropScience. 246 p. |
| 49372006 | Charlton, R. (2014) INTEGO SUITE Neutral Seed Protectant: Physical and Chemical Properties Waiver Requests. Project Number: 201400133, VP/38876. Unpublished study prepared by Valent U.S.A. Corporation. 6p. |
| 49705702 | Nie, C. (2016) Physical and Chemical Properties of INTEGO SUITE Cereals OF. Project Number: 201600015, VP/39141. Unpublished study prepared by Valent U.S.A. Corporation. 42p. |
| 50207203 | Nie, C. (2016) Physical and Chemical Properties of V-10395, V/16/4001. Project Number: 201600173, VP/40001. Unpublished study prepared by Valent Technical Center. 41p. |
| 50712903 | Nie, C. (2020) Self-Certification of the Summary of Physical and Chemical Properties of V-10503 FS. Project Number: V/201523. Unpublished study prepared by Valent U.S.A., LLC. 7p. |
| 50713307 | Nie, C. (2020) Self-Certification of the Summary of Physical and Chemical Properties of V-10170-VC2100 Insecticide. Project Number: V/201885. Unpublished study prepared by Valent U.S.A., LLC. 7p. |
| 51428304 | Hardie, R. (2021) Sharda Clothianidin 48% FS: Product Chemistry - Group B: Request for Waiver for Certain Physical / Chemical Properties Data. Unpublished Study Prepared by Sharda USA LLC. 5p. |

**830.7950       Vapor pressure**

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| **MRID** | **Citation Reference** |
|  |  |
| 47662301 | Huchet, G. (2008) Product Chemistry of Bayer Advanced Flower, Rose and Shrub Care III. Project Number: BR/2654, M/307207/01/1, 08FD075. Unpublished study prepared by Bayer CropScience. 271 p. |
| 47783701 | Huchet, G. (2008) Product Chemistry of Insecticide TD Granule. Project Number: BR2632, FD05808, FD05908. Unpublished study prepared by Bayer CropScience. 246 p. |
| 49372006 | Charlton, R. (2014) INTEGO SUITE Neutral Seed Protectant: Physical and Chemical Properties Waiver Requests. Project Number: 201400133, VP/38876. Unpublished study prepared by Valent U.S.A. Corporation. 6p. |
| 49705702 | Nie, C. (2016) Physical and Chemical Properties of INTEGO SUITE Cereals OF. Project Number: 201600015, VP/39141. Unpublished study prepared by Valent U.S.A. Corporation. 42p. |
| 50207203 | Nie, C. (2016) Physical and Chemical Properties of V-10395, V/16/4001. Project Number: 201600173, VP/40001. Unpublished study prepared by Valent Technical Center. 41p. |
| 50712903 | Nie, C. (2020) Self-Certification of the Summary of Physical and Chemical Properties of V-10503 FS. Project Number: V/201523. Unpublished study prepared by Valent U.S.A., LLC. 7p. |
| 50713307 | Nie, C. (2020) Self-Certification of the Summary of Physical and Chemical Properties of V-10170-VC2100 Insecticide. Project Number: V/201885. Unpublished study prepared by Valent U.S.A., LLC. 7p. |
| 51243905 | Baptiste, C. (2018) Physical and Chemical Properties of One Batch of TC: Final Report. Project Number: R/B7163. Unpublished study prepared by Anadiag S.A. and Defitraces. 107p. |
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**835.1230       Sediment and soil absorption/desorption for parent and degradates**

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| **MRID** | **Citation Reference** |
|  |  |
| 48486901 | Stupp, H. (2011) [Guanidine-(Carbon 14)] Clothianidin: Time Dependent Sorption from Four European Field Dissipation Soils. Project Number: M/405885/01/1, MEF/10/563, M/131/1911/7. Unpublished study prepared by Bayer CropScience. 133 p. |

**835.1240       Soil column leaching**

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| **MRID** | **Citation Reference** |
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| 47483002 | Arthur, E.; Shepherd, J.; Dominic, A. (2008) [Thiazolyl-2-(Carbon 14)]-Clothianidin: Seed Leaching Study. Project Number: M/270224/02/1, METIX050/1. Unpublished study prepared by Bayer CropScience. 88 p. |

**835.2120       Hydrolysis of parent and degradates as a function of pH at 25 C**

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| **MRID** | **Citation Reference** |
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**835.6200       Aquatic field dissipation**

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| **MRID** | **Citation Reference** |
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**835.7100       Ground water monitoring**

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

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**850.1950       Field testing for aquatic organisms**

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**850.2100       Avian acute oral toxicity test**

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| **MRID** | **Citation Reference** |
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| 50354902 | Shepherd, J.; Christ, M. (2013) Toxicity of Clothianidin FS600 G (600g/L) During an Acute Oral LD50 with the Northern Bobwhite Quail (Colinus virginianus). Project Number: EBTIN085, 07SRLS13C49. Unpublished study prepared by SynTech Research Laboratory Services, LLC. 28p. |

**850.3020       Honey bee acute contact toxicity**

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| 49648203 | Pfeiffer, S. (2014) Clothianidin + Imidacloprid FS 275 (100+175 g/L): Acute Contact Toxicity to the Bumble Bee, Bombus terrestris L. Under Laboratory Conditions: Final Report. Project Number: S13/05151, EBTIN106, M/494283/01/1. Unpublished study prepared by Eurofins Agroscience Services. 28p. |
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**850.3030       Honey bee toxicity of residues on foliage**

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| **MRID** | **Citation Reference** |
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**850.3040       Field testing for pollinators**

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| **MRID** | **Citation Reference** |
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**850.4000       Background--Nontarget plant testing**

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**850.4400       Aquatic plant toxicity test using Lemna spp. Tiers I and II**

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**850.5400       Algal toxicity, Tiers 1 and II**

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**850.6100       Environmental Chemistry Methods and Associated Independent Laboratory Validation**

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**860.1000       Background**

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**860.1300       Nature of the residue - plants, livestock**

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**860.1340       Residue analytical method**

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**860.1360       Multiresidue method**

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**860.1380       Storage stability data**

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**860.1460       Food handling**

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**860.1480       Meat/milk/poultry/eggs**

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**860.1500       Crop field trials**

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**860.1520       Processed food/feed**

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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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**870.5300       In vitro mammalian cell gene mutation test**

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**870.5550       Unscheduled DNA synthesis in mammalian cells in culture**

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**870.7800       Immunotoxicity**

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**875.1300       Inhalation exposure--outdoor**

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**875.2100       Foliar dislodgeable residue dissipation**

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**875.2800       Description of human activity**

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**885.1200       Manufacturing process**

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**885.1300       Discussion of formation of unintentional ingredients**

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**885.1400       Analysis of samples**

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