

別添 2

令和 4 年度 植物検疫に係る臭化メチルくん蒸の代替薬剤開発委託事業
ヨウ化メチルくん蒸農産品（生鮮品）における残留性調査

米国内でのヨウ化メチルの登録状況調査報告書

LANDIS INTERNATIONAL R & D MANAGEMENT

要 旨

ヨウ化メチルは, 2007 年に Arysta LifeScience (2019 年～UPL) が初めて米国登録し, 臭化メチルの代替品として 7 製品 (リスト記載) を登録していたが, 2012 年に EPA と合意し, すべての登録を抹消した。ヨウ化メチルは, 米国では農薬用途での使用は禁止され, Arysta LifeScience1 社が登録者であり, 登録申請時に米国 EPA に提出された報告書／関連資料は 247 件であった。登録されていた全製品と登録のために提出されていた報告書／関連資料のリストを作成した。

米国 EPA による新規登録, リスク評価, Arysta LifeScience による自主的な取り消し要請 (2012 年 11 月 21 日), 取り消しに対する EPA の回答 (2012 年 11 月 21 日及び 2013 年 1 月 16 日) について公開された 26 文章についてリストが入手可能である。また, カリフォルニア州での裁判により, カリフォルニア州でも登録抹消されており, 当該裁判に関する情報を調査する事が可能である。

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米国におけるヨウ化メチルの農薬としての利用状況（概要和訳）

ヨウ化メチルは 2007 年に米国 EPA によって最初に登録され、登録者はアリストであった。アリストによって登録された 7 種類の製品のリストを Appendix A に示す。ヨウ化メチルは臭化メチルの代替品として開発された。2007 年、EPA は、ノーベル化学賞を受賞した 6 名を含む 50 名以上の科学者のグループによって重大な懸念が提起されたにも関わらず、1 年間の条件付きで登録を承認した。この科学者たちが EPA に宛てた文書には“ヨウ化メチルの高い揮発性と水溶性のため、農業場面でこの物質が広範に使用されることによって大気、表層水及び地下水への放出が確実に起こり、その結果、多くの人に暴露されることになる”ことが示されていた。2008 年、EPA は期限付き登録を期限なしの条件登録とする新しい通知を発出した。その要求事項は、登録者は製品に関するトレーニング／製品管理計画を作成するとともに、他の土壌燻蒸剤と同様な資料及びラベルの提出であった。ヨウ化メチル製品 7 剤の登録をサポートするために EPA に提出されたすべての試験成績及び資料のリストを Appendix B に示す。

Earth Justice は 2010 年 3 月 31 日、カリフォルニア州で CDPR (California Department of Pesticide Regulation) に対し、ヨウ化メチルの登録に反対する申し立てを行った。裁判手続き、評判の悪さ、販売不振、及び EPA との協議の長期化のため、アリストは 2012 年 11 月 21 日にすべてのヨウ化メチル剤の自主的登録取り下げを要請した。アリストは唯一のヨウ化メチル登録者であった。EPA とアリストは登録取り下げに関する覚書 (MOA) を作成した (2012 年 11 月 21 日付け Regulations.gov に掲載)。2013 年 1 月 16 日、EPA によってヨウ化メチル製剤の最終的登録取り消しを発表した。Regulations.gov には、連邦におけるヨウ化メチルの登録とその後の取り下げに関する 26 の文書が掲載されている。

ヨウ化メチルはカリフォルニア州のイチゴ栽培において多く使用され、100 ポンド/エーカー施用量で州内 38,000 エーカーのイチゴ園場であったので、併せて数百万ポンドが使用されていた。ヨウ化メチルは登録された時点で主にイチゴ用であったが、トマト、ピーマン、苗床、及び果樹やブドウの植え替え前の土壌用にも登録されていた。

カリフォルニア州における裁判では、ヨウ化メチルは後期流産や地下水汚染を引起し、研究所ではがん細胞を作成するために使用されるほどの発がん物質であることが提起された。ヨウ化メチルは 65 種の California's Proposition 65 List of known carcinogenic chemicals (既知発がん物質) に掲載され、裁判では重大な生殖及び神経系に関する健康影響との関連も指摘されている。

現在の米国では、ヨウ化メチルは農薬としての使用が禁止されているので、農薬用ヨウ化メチル製剤のいかなる使用も違法となる。なお、当初の登録のために EPA に提出された資料の評価記録の閲覧に対しては、情報公開 (FOIA) 請求が可能である。



(IET 22-1018)

Methyl Iodide Use in Pesticides in the US

Methyl iodide was first registered by the US EPA in 2007 with Arysta as the registrant. A list of the seven products registered by Arysta is included in Appendix A. Methyl iodide was developed as an alternative to methyl bromide. In 2007, EPA approved a time-limited, one-year conditional registration of methyl iodide despite serious concerns raised by a group of over 50 scientists, including six Nobel Laureates in Chemistry. These scientists sent a letter of concern to EPA explaining, "Because of methyl iodide's high volatility and water solubility, broad use of this chemical in agriculture will guarantee substantial releases to air, surface waters and groundwater, and will result in exposures for many people." In 2008, EPA issued a new registration notice converting the time-limited conditional registration to a time-unlimited conditional registration. The only requirements were that the registrant provide a product training/stewardship program and that it follow the data and label submission requirements of other soil fumigants. A list of all of the studies/documents submitted to the EPA to support the registrations of the 7 methyl iodide products is included in Appendix B.

Earth Justice filed a petition on March 31, 2010 in California against CDPR for registering methyl iodide. Due to the court proceedings, negative publicity, lack of sales, and lengthy discussions with EPA, Arysta requested to voluntarily cancel all their methyl iodide registrations on November 21, 2012. Arysta was the only registrant for methyl iodide. EPA and Arysta developed a memorandum of agreement (MOA) for the cancellations which was also posted to Regulations.gov on November 21, 2012. On January 16, 2013, EPA published the final cancellation of the methyl iodide products. There are 26 documents on Federal Regulations.gov pertaining to the registration and subsequent cancellation of methyl iodide.

Methyl iodide was applied to much of California's strawberry fields at rates up to 100 pounds per acre on the state's 38,000 acres in strawberry production, totaling millions of pounds of use. Even though methyl iodide was to be used primarily on strawberries when it was registered, it was also registered for use on tomatoes, peppers, nurseries and on soils prior to replanting orchards and vineyards.

The court case in CA claimed methyl iodide causes late term miscarriages, contaminates groundwater and is so reliably carcinogenic that it's used to create cancer cells in laboratories. Methyl iodide is on California's Proposition 65 List of known carcinogenic chemicals and according to the court case has been linked to serious risks in reproductive and neurological health.

Methyl iodide is now banned for pesticidal use in the US. It is illegal to use any methyl iodide pesticide products in the US. Data evaluation records (DERs) for studies that were submitted to the EPA to support the original registrations can be acquired through a FOIA request.

Methyl Iodide Use in Pesticides in the US

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Appendix A: Federal Registrations of Methyl Iodide

Methyl Iodide Use in Pesticides in the US

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Federal Registration Data

Number of Products Selected: 7

Federal Data

Ingredient:
METHYL IODIDE

TM-42503

EPA REG NO: 66330-42 NAME STATUS: PRIMARY
NAMEPRODUCT STATUS: CANCELLED ON: 09-15-09 EXISTING STOCKS DATE:
** NA **

REASON FOR CANCELLATION: COMPANY REQUEST

REGISTRANT: ARYSTA LIFESCIENCE NORTH AMERICA LLC
C/O UPL NA INC.630 FREEDOM BUSINESS CENTER, SUITE
402 KING OF PRUSSIA PA 19406FORMULATION: PRESSURIZED GAS
SIGNAL WORD: DANGERTYPES: RESTRICTED
CONDITIONALLY REGISTERED - FIFRA 3(c)7
INSECTICIDE
HERBICIDE
FUNGICIDE
NEMATOCIDE
SOIL FUMIGANTPERCENT ACTIVE INGREDIENT
25.0000 Methane, iodo- (11)
75.0000 Chloropicrin (81501)

STATES REG: ME-12 CO-10 IA-11 PA-10 IN-12 AK-10

ORIGINAL APPROVAL DATE: 10-05-07
MOST RECENT EPA UPDATE: 09-05-18 USES LAST UPDATED BY EPA:
** NA **SELECTED USES
***** END OF DATA FOR THIS PRODUCT *****

MIDAS 98:2

EPA REG NO: 66330-43 NAME STATUS: PRIMARY
NAMEPRODUCT STATUS: CANCELLED ON: 12-31-12 EXISTING STOCKS DATE:
** NA **

REASON FOR CANCELLATION: COMPANY REQUEST

REGISTRANT: ARYSTA LIFESCIENCE NORTH AMERICA LLC
C/O UPL NA INC.630 FREEDOM BUSINESS CENTER, SUITE
402

Methyl Iodide Use in Pesticides in the US

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KING OF PRUSSIA PA 19406

FORMULATION: PRESSURIZED GAS
SIGNAL WORD: DANGERTYPES: RESTRICTED
CONDITIONALLY REGISTERED - FIFRA 3(c)7
FUNGICIDE
INSECTICIDE
SOIL FUMIGANT
NEMATOCIDE
HERBICIDEPERCENT ACTIVE INGREDIENT
97.8000 Methane, iodo- (11)
1.9900 Chloropicrin (81501)

STATES REG: ME-12 CO-12 IA-12 CA-12 PA-12 IN-12 AK-12

ORIGINAL APPROVAL DATE: 10-05-07
MOST RECENT EPA UPDATE: 09-05-18 USES LAST UPDATED BY EPA:
06-21-10SELECTED USES
***** END OF DATA FOR THIS PRODUCT *****IODOMETHANE TECHNICAL
EPA REG NO: 66330-44 NAME STATUS: PRIMARY
NAMEPRODUCT STATUS: CANCELLED ON: 12-01-15 EXISTING STOCKS DATE:
** NA **

REASON FOR CANCELLATION: COMPANY REQUEST

REGISTRANT: ARYSTA LIFESCIENCE NORTH AMERICA LLC
C/O UPL NA INC.630 FREEDOM BUSINESS CENTER, SUITE
402
KING OF PRUSSIA PA 19406FORMULATION: TECHNICAL CHEMICAL
SIGNAL WORD: DANGERTYPES: CONDITIONALLY REGISTERED - FIFRA 3(c)7
SOIL FUMIGANTPERCENT ACTIVE INGREDIENT
99.8000 Methane, iodo- (11)

STATES REG: FL-14 CA-12

ORIGINAL APPROVAL DATE: 10-05-07
MOST RECENT EPA UPDATE: 12-10-15 USES LAST UPDATED BY EPA:
** NA **SELECTED USES
***** END OF DATA FOR THIS PRODUCT *****MIDAS 50:50
EPA REG NO: 66330-57 NAME STATUS: PRIMARY
NAMEPRODUCT STATUS: CANCELLED ON: 12-31-12 EXISTING STOCKS DATE:
** NA **

(IET 22-1018)

Methyl Iodide Use in Pesticides in the US

REASON FOR CANCELLATION: COMPANY REQUEST

REGISTRANT: ARYSTA LIFESCIENCE NORTH AMERICA LLC
C/O UPL NA INC.630 FREEDOM BUSINESS CENTER, SUITE
402 KING OF PRUSSIA PA 19406

FORMULATION: PRESSURIZED GAS
SIGNAL WORD: DANGER

TYPES: RESTRICTED
CONDITIONALLY REGISTERED - FIFRA 3(c)7
INSECTICIDE
HERBICIDE TERRESTRIAL
SOIL FUMIGANT
FUNGICIDE AND NEMATICIDE

PERCENT ACTIVE INGREDIENT
49.9000 Methane, iodo- (11)
49.7500 Chloropicrin (81501)

STATES REG: ME-12 CO-12 FL-12 IA-12 CA-12 PA-12 IN-12 AK-12

ORIGINAL APPROVAL DATE: 10-18-07
MOST RECENT EPA UPDATE: 09-12-18 USES LAST UPDATED BY EPA:
06-21-10

SELECTED USES
***** END OF DATA FOR THIS PRODUCT *****

MIDAS EC BRONZE
EPA REG NO: 66330-58 NAME STATUS: PRIMARY
NAME

PRODUCT STATUS: CANCELLED ON: 12-31-12 EXISTING STOCKS DATE:
** NA **

REASON FOR CANCELLATION: COMPANY REQUEST

REGISTRANT: ARYSTA LIFESCIENCE NORTH AMERICA LLC
C/O UPL NA INC.630 FREEDOM BUSINESS CENTER, SUITE
402 KING OF PRUSSIA PA 19406

FORMULATION: SOLUTION-READY TO USE
SIGNAL WORD: DANGER

TYPES: RESTRICTED
CONDITIONALLY REGISTERED - FIFRA 3(c)7
INSECTICIDE
NEMATICIDE
SOIL FUMIGANT
FUNGICIDE
HERBICIDE

PERCENT ACTIVE INGREDIENT
49.9000 Methane, iodo- (11)
44.7800 Chloropicrin (81501)

STATES REG: ME-12 CO-12 IA-12 PA-12 IN-12 AK-12

ORIGINAL APPROVAL DATE: 10-11-07
MOST RECENT EPA UPDATE: 12-15-15 USES LAST UPDATED BY EPA:
06-21-10

(IET 22-1018)

Methyl Iodide Use in Pesticides in the US

SELECTED USES
 ***** END OF DATA FOR THIS PRODUCT *****

MIDAS 33:67
 EPA REG NO: 66330-59 NAME STATUS: PRIMARY
 NAME

PRODUCT STATUS: CANCELLED ON: 12-31-12 EXISTING STOCKS DATE:
 ** NA **
 REASON FOR CANCELLATION: COMPANY REQUEST

REGISTRANT: ARYSTA LIFESCIENCE NORTH AMERICA LLC
 C/O UPL NA INC.630 FREEDOM BUSINESS CENTER, SUITE
 402
 KING OF PRUSSIA PA 19406

FORMULATION: SOLUTION-READY TO USE
 SIGNAL WORD: DANGER

TYPES: RESTRICTED
 CONDITIONALLY REGISTERED - FIFRA 3(c)7
 FUNGICIDE
 SOIL FUMIGANT
 INSECTICIDE
 NEMATOCIDE
 HERBICIDE

PERCENT ACTIVE INGREDIENT
 32.9300 Methane, iodo- (11)
 66.3000 Chloropicrin (81501)

STATES REG: ME-12 CO-12 IA-12 CA-12 PA-12 IN-12 AK-12

ORIGINAL APPROVAL DATE: 10-05-07
 MOST RECENT EPA UPDATE: 09-12-18 USES LAST UPDATED BY EPA:
 06-21-10

SELECTED USES
 ***** END OF DATA FOR THIS PRODUCT *****

MIDAS EC GOLD
 EPA REG NO: 66330-60 NAME STATUS: PRIMARY
 NAME

PRODUCT STATUS: CANCELLED ON: 12-31-12 EXISTING STOCKS DATE:
 ** NA **
 REASON FOR CANCELLATION: COMPANY REQUEST

REGISTRANT: ARYSTA LIFESCIENCE NORTH AMERICA LLC
 C/O UPL NA INC.630 FREEDOM BUSINESS CENTER, SUITE
 402
 KING OF PRUSSIA PA 19406

FORMULATION: SOLUTION-READY TO USE
 SIGNAL WORD: DANGER

TYPES: RESTRICTED
 CONDITIONALLY REGISTERED - FIFRA 3(c)7
 SOIL FUMIGANT
 INSECTICIDE
 FUNGICIDE
 NEMATOCIDE

Methyl Iodide Use in Pesticides in the US

HERBICIDE

PERCENT	ACTIVE INGREDIENT
32.9300	Methane, iodo- (11)
61.6900	Chloropicrin (81501)

STATES REG: ME-12 CO-12 IA-12 CA-12 PA-12 IN-12 AK-12

ORIGINAL APPROVAL DATE: 10-11-07

MOST RECENT EPA UPDATE: 12-15-15 USES LAST UPDATED BY EPA:
06-21-10

SELECTED USES

***** END OF DATA FOR THIS PRODUCT *****

*** END OF OUTPUT ***

Methyl Iodide Use in Pesticides in the US

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**Appendix B: Data Submitted to Support the Federal Registrations of
Methyl Iodide**

Methyl Iodide Use in Pesticides in the US

(IET 22-1018)

MRID and Citation

Last Search: Chemical: METHYL IODIDE
 Number of Citations Selected: 247

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- 45593700 Arvesta Corp. (2002) Submission of Residue, Product Chemistry, Toxicity and Environmental Fate Data in Support of the Application for Registration of Iodomethane Technical. Transmittal of 26 of 49 Studies.
- 45593701 Curry, K.; Brookman, D. (2002) Iodomethane Technical: Summary of Scientific Data Supporting Registration: Product Properties: Lab Project Number: TM-425-07. Unpublished study prepared by Technology Sciences Group Inc. 32 p. {OPPTS 830.0000}
- 45593702 Curry, K.; Brookman, D. (2002) Iodomethane Technical: Product Properties--Group A TM-425 Manufacturing Use Product: Lab Project Number: TM-425-01. Unpublished study prepared by Ricerca, LLC. 100 p. {OPPTS 830.1550, 830.1600, 830.1620, 830.1670, 830.1800, 830.1700, 830.1750}
- 45593703 Walker, R. (2001) Analysis of TM-425 for % Iodomethane by Gas Chromatography: Lab Project Number: TM-0410-00/C. Unpublished study prepared by Ricerca, LLC. 11 p. {OPPTS 830.1800}
- 45593704 Curry, K.; Brookman, D. (2002) Iodomethane Technical: Product Properties--Group B TM-425 Manufacturing Use Product: Lab Project Number: TM-425-02. Unpublished study prepared by Technology Sciences Group Inc. 183 p. {OPPTS 830.6302, 830.6303, 830.6304, 830.6313, 830.6314, 830.6315, 830.6316, 830.6317, 830.6319, 830.6320, 830.6321, 830.7000, 830.7050, 830.7100, 830.7200, 830.7220, 830.7300, 830.7370, 830.7550, 830.7560, 830.7570, 830.7840, 830.7950}
- 45593705 Wujcik, C. (2001) A Hydrolysis Study of (Carbon 14) Iodomethane (TM-425) in Water: Lab Project Number: 012522-1: 012522. Unpublished study prepared by Ricerca, LLC. 113 p.
- 45593706 McFadden, J. (2001) A Photolysis Study of (Carbon 14) Iodomethane (TM-425) in Water: Lab Project Number: 012521-1: 012521. Unpublished study prepared by Ricerca, LLC. 95 p.
- 45593707 Wujcik, C. (2001) Aerobic Soil Metabolism (Carbon 14) Iodomethane (TM-425): Lab Project Number: 012520-1: 012520. Unpublished study prepared by Ricerca, LLC. 97 p.
- 45593708 Wujcik, C. (2001) Anaerobic Aquatic Metabolism (Carbon 14) Iodomethane (TM-425): Lab Project Number: 013072-1: 013072. Unpublished study prepared by Ricerca, LLC. 105 p.
- 45593709 McFadden, J.; Landphair, C. (2001) Adsorption and Desorption of (Carbon 14) Iodomethane (TM-425) on Five Soils: Lab Project Number: 013136-1: 013136. Unpublished study prepared by Ricerca, LLC. 118 p.
- 45593710 Baker, F.; Estigoy, L.; Reiss, R. et al. (2002) Volatility of

- (Carbon 14) Iodomethane (TM-425) Under Field Conditions in California and Florida: Lab Project Number: 893W: 893W-1: 893W-FL. Unpublished study prepared by Plant Sciences, Inc. 929 p.
- 45593711 Baker, F.; Nelson, M.; Bolda, M. et al. (2002) Terrestrial Field Dissipation Iodomethane (TM-425) in California and Florida Bareground Soils: Final Report: Lab Project Number: 892W: 892W-1: MEIUSATD2000-03. Unpublished study prepared by Plant Sciences, Inc. 933 p.
- 45593712 Anonymous (2000) Estimates of the Atmospheric Lifetime, Global Warming Potential, and Ozone Depletion Potential of Iodomethane (CH₃I). Unpublished study prepared by Atmospheric and Environmental Research, Inc. 40 p.
- 45593713 Drott, K.; Kendall, T.; Krueger, H. (2001) Iodomethane (TM-425): A 48-Hour Static-Renewal Acute Immobilisation Test with the Cladoceran (*Daphnia magna*): Final Report: Lab Project Number: 443A-106. Unpublished study prepared by Wildlife International, Ltd. 57 p. {OPPTS 850.1010}
- 45593714 Drott, K.; Kendall, T.; Krueger, H. (2002) Iodomethane (TM-425): A 96-Hour Static-Renewal Acute Toxicity Test with the Rainbow Trout (*Oncorhynchus mykiss*): Final Report: Lab Project Number: 443A-107A. Unpublished study prepared by Wildlife International, Ltd. 65 p. {OPPTS 850.1075}
- 45593715 Nixon, W.; Kendall, T. (2001) Analytical Method Verification for the Determination of Iodomethane in Freshwater: Lab Project Number: 443C-107. Unpublished study prepared by Wildlife International, Ltd. 31 p. {OPPTS 830.1800}
- 45593716 Gallagher, S.; Beavers, J. (2001) Iodomethane: An Acute Oral Toxicity Study with the Northern Bobwhite Quail: Final Report: Lab Project Number: 443-101. Unpublished study prepared by Wildlife International, Ltd. 48 p. {OPPTS 850.2100}
- 45593717 Kiplinger, G. (2002) Acute Inhalation Toxicity Study of Iodomethane in Bobwhite Quail: Final Report: Lab Project Number: WIL-418005. Unpublished study prepared by WIL Research Laboratories, Inc. 184 p.
- 45593718 McFadden, J. (2002) Metabolism of (Carbon 14)-Iodomethane (TM-425) in Strawberries: Lab Project Number: 012033-1: 012033. Unpublished study prepared by Ricerca, LLC. 138 p. {OPPTS 860.1300}
- 45593719 McFadden, J. (2002) Metabolism of (Carbon 14)-Iodomethane (TM-425) by Tomato: Amended Report: Lab Project Number: 012391-1-1: 012391. Unpublished study prepared by Ricerca, LLC. 117 p. {OPPTS 860.1300}
- 45593720 Cassidy, P. (2001) GLP Method Validation Determination of Iodomethane (TM-425) by Gas Chromatography Headspace Analysis: Lab Project Number: 012157-1: 012157-0-1: 916. Unpublished study prepared by Ricerca, LLC. 55 p. {OPPTS 860.1340 and 860.1380}
- 45593721 Cassidy, P. (2002) Analytical Method: Determination of Iodomethane in Tomato Fruit by Headspace Analysis using Gas Chromatography: Lab Project Number: 012157-3. Unpublished study prepared by Ricerca, LLC. 25 p. {OPPTS 860.1340}

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- 45593722 Cassidy, P. (2001) Analytical Method: Determination of Iodide in Tomato Fruit by Ion Chromatography: Lab Project Number: 012157-2. Unpublished study prepared by Ricerca, LLC. 25 p. {OPPTS 860.1340}
- 45593723 Cassidy, P. (2001) GLP Method Validation Determination of Iodomethane (TM-425) by Gas Chromatography Headspace Analysis and Iodide by Ion Chromatography in Strawberries: Lab Project Number: 012953-1: TM-425: 012953-0. Unpublished study prepared by Ricerca, LLC. 50 p. {OPPTS 860.1340 and 860.1380}
- 45593724 Cassidy, P. (2002) Analytical Method: Determination of Iodomethane in Strawberry Fruit by Headspace Analysis using Gas Chromatography: Lab Project Number: 012953-3. Unpublished study prepared by Ricerca, LLC. 25 p.
- 45593725 Cassidy, P. (2002) Analytical Method: Determination of Iodide in Strawberry Fruit by Ion Chromatography: Lab Project Number: 012953-2. Unpublished study prepared by Ricerca, LLC. 26 p. {OPPTS 860.1340}
- 45593726 Cassidy, P. (2002) Magnitude of the Residue of Iodomethane (TM-425) and Iodide in Tomato Raw Agricultural Commodity: Lab Project Number: 012921-1-1: TOM425TOM: 425USATOM00.069X. Unpublished study prepared by Ricerca, LLC. 103 p. {OPPTS 860.1500}
- 45593800 Arvesta Corporation (2002) Submission of Residue, Toxicity, Environmental Fate, Risk, Exposure Assessment and Efficacy Data in Support of the Application for Registration of Iodomethane Technical. Transmittal of 23 of 49 Studies.
- 45593801 Cassidy, P.; Hurstak, R.; Obrist, J. (2002) Magnitude of the Residue of Iodomethane (TM-425) and Iodide in Strawberry Raw Agricultural Commodity: Lab Project Number: TOM425STR: 013011-1: 17001. Unpublished study prepared by Pacific Ag Research Corp. and Ricerca, LLC. 102 p. {OPPTS 860.1500}
- 45593802 Burin, G.; Milesen, B. (2002) Iodomethane Technical: Summary of Scientific Data Supporting Registration: Health Effects: Lab Project Number: TM-425-21. Unpublished study prepared by Technology Sciences Group, Inc. 221 p. {OPPTS 835.0000}
- 45593803 Bonnette, K. (2001) An Acute Oral Toxicity Study in Rats with Iodomethane (TM-425): Amended Final Report: Lab Project Number: 3527.1. Unpublished study prepared by Springborn Laboratories, Inc. 95 p. {OPPTS 870.1100}
- 45593804 Bonnette, K. (2001) An Acute Oral Toxicity Study in Mice with Iodomethane (TM-425): Amended Final Report: Lab Project Number: 3527.2. Unpublished study prepared by Springborn Laboratories, Inc. 96 p. {OPPTS 870.1100}
- 45593805 Bonnette, K. (2001) An Acute Dermal Toxicity Study in Rabbits with Iodomethane (TM-425): Amended Final Report: Lab Project Number: 3527.3. Unpublished study prepared by Springborn Laboratories, Inc. 66 p. {OPPTS 870.1200}
- 45593806 Kirkpatrick, D. (2001) Acute Inhalation Toxicity Study of Iodomethane in Albino Rats: Final Report: Lab Project Number: WIL-418006. Unpublished study prepared by WIL Research Laboratories, Inc. 124 p. {OPPTS 870.1300}
- 45593807 Bonnette, K. (2001) A Primary Eye Irritation Study in Rabbits

- with Iodomethane (TM-425): Amended Final Report: Lab Project Number: 3527.5. Unpublished study prepared by Springborn Laboratories, Inc. 55 p. {OPPTS 870.2400}
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