

TOXICS RELEASE INVENTORY
BASIC PLUS DATA FILES DOCUMENTATION
FILE TYPE 2A: DETAILED SOURCE REDUCTION ACTIVITIES
AND METHODS

Updated for RY 2016

August 2017



OVERVIEW

| <u>File</u> | <u>Example</u> | <u>Description of Contents</u> | <u>Form R or A Reference</u> |
|-------------|-------------------|---|---|
| Type 1 | CA_1_2015_v15.txt | Facility data, chemical identification, chemical uses, on-site releases and management, off-site transfers, summary information | Part I (all), Part II (section 1, 3, 4, 5, 6.1.A, 6.2ABC 7B, 7C, 8.2.B, 8.4.B, 8.6. |

The Basic Plus Data Files are identified (named) by state, file type, reporting year and version number.

File Name = State + File_Type + Reporting Year + Version number

For example, the file "CA_1_2015_v15.txt" contains the Facility, Chemical Identification, Chemical uses, On-site Releases and Management, Off-site Transfers and Summary Information (File Type 1) for all facilities located in California (CA) for reporting year 2015. The version number is "v15." The "v15" signifies that the file was created with Reporting Year 2015 data.

In addition to the set of files for each state, there are also two more file sets. There is a Federal file set (FED_1_2015_v15.txt, FED_2A_2015_v15.txt, etc.) which contains data for all government owned and operated federal sites. The National Data File set contains all the TRI data (for all states and U.S. Territories) for a specific year. The national data files are named US_1_2015_v15.txt, US_2A_2015_v15.txt, etc.

Many of the data elements described in the Basic Plus Data Files documentation refer to the TRI Form R and Form A Certification Statement, which are the forms facilities use to submit data to the TRI Program. The TRI Reporting Forms and Instructions document contains copies of the forms and the complete instructions for filling them out. The Reporting Forms and Instructions is available at <https://www.epa.gov/toxics-release-inventory-tri-program/archived-tri-reporting-forms-and-instructions>. Complete lists of values for many of the data fields in the Basic Plus Data Files can be found in this document.

Detailed Description: File Type 2A

The “Type 2A” file is comprised of three general data sections. First, it contains almost all of the facility identification data from Part I of the TRI Reporting Form R or the Form A Certification Statement. Second, it contains the chemical identification data from Part II, Section 1 of the Form R or Form A Certification Statement. Third, it contains all of the data from Part II, Section 8 of the form R. This is the source Reduction and recycling activities data.

Mandated by section 6607 of the Pollution Prevention Act of 1990 (PPA), the “Source Reduction and Recycling Activities” section (Part II, Section 8) of the Form R asks facilities for information about source reduction activities and quantities of EPCRA 313 chemicals managed as waste. Section 8 data gives an overall picture of on-site and off-site releases and waste management, as well as source reduction.

| Part | Section | Description |
|------|---------|--|
| I | 1 | Reporting Year |
| I | 1 | Revision Codes |
| I | 2.1 | Trade Secret Indicator |
| I | 4 | Facility Identification Information |
| I | 5 | Parent Company Information |
| II | 1 | Chemical Identification Data |
| II | 8.1 | Total Releases |
| II | 8.1a | Total on-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills |
| II | 8.1b | Total other on-site disposal or other releases |
| II | 8.1c | Total off-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills |
| II | 8.1d | Total other off-site disposal or other releases |
| II | 8.2 | Quantity used for energy recovery, ON-SITE |
| II | 8.3 | Quantity used for energy recovery, OFF-SITE |
| II | 8.4 | Quantity recycled, ON-SITE |
| II | 8.5 | Quantity recycled, OFF-SITE |
| II | 8.6 | Quantity treated, ON-SITE |
| II | 8.7 | Quantity treated, OFF-SITE |
| II | 8.8 | Quantity released to the environment as a result of remedial actions, catastrophic events, or one-time events not associated with production processes |
| II | 8.9 | Production ratio or activity index |
| II | 8.10 | Source Reduction Activities and Methods |

FIELD DESCRIPTIONS

The rest of this document is organized as a four-column data table. It describes what information you will find when you download and open any of the TRI Basic Plus Data Files (i.e., the Basic Data Files record structure).

| Column | Description |
|--------------|---|
| Number (No.) | The sequential number of the data element in the record |
| Field Name | The TRI system field name of the data element |
| Data Type | 'C' for character data (alphanumeric) 'N' for numeric data 'D' for date |
| Description | A brief statement of what the data element represents along with its TRI System <i>Source</i> (in Table Name . Field Name format) and the TRI Reporting Form R reference |

The data fields in each of the seven files are delimited by tab, meaning a tab is placed between each data element.

The first record (row) of each file contains column headers or field names.

| No. | Field Name | Type | Description |
|-----|------------------------|------|--|
| 1 | REPORTING YEAR | C | The calendar year in which the reported activities occurred. <i>Source: TRI_REPORTING_FORM.REPORTING_YEAR</i> <i>Reference: Part I, Section 1</i> |
| 2 | TRADE SECRET INDICATOR | C | Indicates whether the reporting facility claims the identity of the chemical or chemical category as a trade secret. Yes = Checked (Trade Secret) No = Not checked Note: Only sanitized trade secret submissions are stored in the TRI database. <i>Source: TRI_REPORTING_FORM.TRADE_SECRET_IND</i> <i>Reference: Part I, Section 2.1</i> |
| 3 | TRIFD | C | Facility identification in the format zzzzznnnnsssss, where usually zzzzz = facility zip code, nnnnn = first five consonants of the name, and sssss = first five non-specific characters in the street address. The three sections of the format were separated by hyphens prior to RY 2006. NOTE: <i>The content of this field is <u>not</u> changed to match facility ownership, or zip code changes. Rather, the TRI Facility ID identifies a specific geographical location which is also identified by the latitude and longitude of that location.</i> <i>Source: TRI_FACILITY.TRI_FACILITY_ID</i> <i>Reference: Part I, Section 4.1</i> |
| 4 | FACILITY NAME | C | Name of the reporting facility. <i>Source: TRI_FACILITY.FACILITY_NAME</i> <i>Reference: Part I, Section 4.1</i> |
| 5 | FACILITY STREET | C | Street address of the reporting facility. <i>Source: TRI_FACILITY.STREET_ADDRESS</i> <i>Reference: Part I, Section 4.1</i> |
| 6 | FACILITY CITY | C | City in which the reporting facility is located. <i>Source: TRI_FACILITY.CITY_NAME</i> <i>Reference: Part I, Section 4.1</i> |
| 7 | FACILITY COUNTY | C | County in which the reporting facility is located. <i>Source: TRI_FACILITY.COUNTY_NAME</i> <i>Reference: Part I, Section 4.1</i> |
| 8 | FACILITY STATE | C | Two-letter state code of the reporting facility. <i>Source: TRI_FACILITY.STATE_ABBR</i> <i>Reference: Part I, Section 4.1</i> |
| 9 | FACILITY ZIP CODE | C | ZIP code of the reporting facility. <i>Source: TRI_FACILITY.ZIP_CODE</i> <i>Reference: Part I, Section 4.1</i> |
| 10 | BIA CODE | C | Three-letter code indicating the tribal land a facility is on. <i>Source: FACILITY.BIA_TRIBAL_CODE</i> |
| 11 | TRIBE | C | The name of the Tribe. <i>Source: V_INDIAN_COUNTRY.</i> |
| 12 | ENTIRE FACILITY IND | C | Indicates whether the information covers an entire facility or part of a facility. |

| No. | Field Name | Type | Description |
|-----|----------------------|------|--|
| | | | <p>Yes = entire No = partial <i>Source: TRI_REPORTING_FORM.ENTIRE_FAC</i> <i>Reference: Part I, Section 4.2a</i></p> |
| 13 | PARTIAL FACILITY IND | C | <p>Indicates whether the information covers an entire facility or part of a facility: Yes = partial No = entire <i>Source: TRI_REPORTING_FORM.PARTIAL_FAC</i> <i>Reference: Part I, Section 4.2b</i></p> |
| 14 | FEDERAL FACILITY IND | C | <p>Code indicating whether a facility is a federal facility or not. Reported by facility. Yes = Federal No = non-Federal Value <i>Source: TRI_REPORTING_FORM.FEDERAL_FAC_IND</i> <i>Reference: Part I Section 4.2c</i></p> |
| 15 | GOCO FACILITY IND | C | <p>Code indicating whether a facility is a GOCO (Government Owned, Contractor-Operated) facility or not: Yes = GOCO No = non-GOCO <i>Source: TRI_REPORTING_FORM.GOCO_FLAG</i> <i>Reference: Part I Section 4.2d</i></p> |
| 16 | PRIMARY SIC CODE | C | <p>Primary four-digit Standard Industrial Classification (SIC) code. <i>Source: TRI_SUBMISSION_SIC.SIC_CODE</i> <i>Where: primary_ind = >1'</i> <i>Reference: Part I, Section 4.5a</i></p> |
| 17 | SIC CODE 2 | C | <p>Second four-digit Standard Industrial Classification (SIC) code entered by facility. <i>Source: TRI_SUBMISSION_SIC.SIC_CODE</i> <i>Where: sic_sequence_num = >2'</i> <i>Reference: Part I, Section 4.5b</i></p> |
| 18 | SIC CODE 3 | C | <p>Third four-digit Standard Industrial Classification (SIC) code entered by facility. <i>Source: TRI_SUBMISSION_SIC.SIC_CODE</i> <i>Where: sic_sequence_num = >3'</i> <i>Reference: Part I, Section 4.5c</i></p> |
| 19 | SIC CODE 4 | C | <p>Fourth four-digit Standard Industrial Classification (SIC) code entered by facility. <i>Source: TRI_SUBMISSION_SIC.SIC_CODE</i> <i>Where: sic_sequence_num = >4'</i> <i>Reference: Part I, Section 4.5d</i></p> |
| 20 | SIC CODE 5 | C | <p>Fifth four-digit Standard Industrial Classification (SIC) code entered by facility. <i>Source: TRI_SUBMISSION_SIC.SIC_CODE</i> <i>Where: sic_sequence_num = >5'</i> <i>Reference: Part I, Section 4.5e</i></p> |

| No. | Field Name | Type | Description |
|-----|--------------------|------|---|
| 21 | SIC CODE 6 | C | Sixth four-digit Standard Industrial Classification (SIC) code entered by facility. <i>Source:</i> TRI_SUBMISSION_SIC.SIC_CODE <i>Where:</i> sic_sequence_num = >6' <i>Reference:</i> Part I, Section 4.5f |
| 22 | NAICS ORIGIN | C | Indicates whether NAICS codes were reported or assigned. R = Reported A = Assigned |
| 23 | PRIMARY NAICS CODE | C | Primary six-digit North American Standard Industry Classification System (NAICS) code. <i>Source:</i> TRI_SUBMISSION_NAICS.NAICS_CODE <i>Where:</i> primary_ind => 1 <i>Reference:</i> Part I, Section 4.5a |
| 24 | NAICS CODE 2 | C | Second six-digit North American Standard Industry Classification System (NAICS) code entered by facility <i>Source:</i> TRI_SUBMISSION_NAICS.NAICS_CODE <i>Where:</i> naics_sequence_num = 2 <i>Reference:</i> Part I, Section 4.5b |
| 25 | NAICS CODE 3 | C | Third six-digit North American Standard Industry Classification System (NAICS) code entered by facility. <i>Source:</i> TRI_SUBMISSION_NAICS.NAICS_CODE <i>Where:</i> naics_sequence_num = 3 <i>Reference:</i> Part I, Section 4.5b |
| 26 | NAICS CODE 4 | C | Forth six-digit North American Standard Industry Classification System (NAICS) code entered by facility <i>Source:</i> TRI_SUBMISSION_NAICS.NAICS_CODE <i>Where:</i> naics_sequence_num = 4 <i>Reference:</i> Part I, Section 4.5b |
| 27 | NAICS CODE 5 | C | Fifth six-digit North American Standard Industry Classification System (NAICS) code entered by facility <i>Source:</i> TRI_SUBMISSION_NAICS.NAICS_CODE <i>Where:</i> naics_sequence_num = 5 <i>Reference:</i> Part I, Section 4.5b |
| 28 | NAICS CODE 6 | C | Sixth six-digit North American Standard Industry Classification System (NAICS) code entered by facility <i>Source:</i> TRI_SUBMISSION_NAICS.NAICS_CODE <i>Where:</i> naics_sequence_num = 6 <i>Reference:</i> Part I, Section 4.5b |
| 29 | LATITUDE | N | The latitude value that best represents the facility according to EPA's Facility Registry System (FRS). In RY 2005, EPA stopped collecting the latitude value and began obtaining it from FRS. Format: signed 2-digit whole number, 6 digit decimal positions (+nn.nnnnnn). <i>Source:</i> EPA's Facility Registry System |
| 30 | LONGITUDE | N | The longitude value that best represents the facility according to EPA's Facility Registry System (FRS). In 2005, |

| No. | Field Name | Type | Description |
|-----|---------------------|------|---|
| | | | TRI stopped collecting the longitude value and began obtaining it from FRS. Format: signed 3-digit whole number, 6 digit decimal positions (+nnn.nnnnnn). <i>Source: EPA's Facility Registry System</i> |
| 31 | D&B NR A | C | Unique identification number assigned by Dun and Bradstreet to the reporting facility. <i>Source: TRI_FACILITY_DB.DB_NUM</i> <i>Reference: Part I, Section 4.7a</i> |
| 32 | D&B NR B | C | Unique identification number assigned by Dun and Bradstreet to the reporting facility. <i>Source: TRI_FACILITY_DB.DB_NUM</i> <i>Reference: Part I, Section 4.7b</i> |
| 33 | RCRA NR A | C | Twelve-digit alphanumeric identifier assigned by EPA per the Resource Conservation and Recovery Act (RCRA). In RY 2005, TRI stopped collecting RCRA IDs and began obtaining them from EPA's Facility Registry System (FRS). <i>Source: EPA's Facility Registry System</i> |
| 34 | RCRA NR B | C | Twelve-digit alphanumeric identifier assigned by EPA per the Resource Conservation and Recovery Act (RCRA). In RY 2005, TRI stopped collecting RCRA IDs and began obtaining them from EPA's Facility Registry System (FRS). <i>Source: EPA's Facility Registry System</i> |
| 35 | NPDES NR A | C | Nine-digit alphanumeric identifier assigned to a facility in EPA's National Pollutant Discharge Elimination System (NPDES). In RY 2006, TRI stopped collecting NPDES IDs and began obtaining them from EPA's Facility Registry System (FRS). <i>Source: EPA's Facility Registry System</i> |
| 36 | NPDES NR B | C | Nine-digit alphanumeric identifier assigned to a facility in EPA's National Pollutant Discharge Elimination System (NPDES). In RY 2006, TRI stopped collecting NPDES IDs and began obtaining them from EPA's Facility Registry System (FRS). <i>Source: EPA's Facility Registry System</i> |
| 37 | UIC NR A | C | Underground injection identification number, assigned by EPA or the state, to a facility. In RY 2006, TRI stopped collecting UIC IDs and began obtaining them from EPA's Facility Registry System (FRS). <i>Source: EPA's Facility Registry System</i> |
| 38 | UIC NR B | C | Underground injection identification number, assigned by EPA or the state, to a facility. In RY 2006, TRI stopped collecting UIC IDs and began obtaining them from EPA's Facility Registry System (FRS). <i>Source: EPA's Facility Registry System</i> |
| 39 | PARENT COMPANY NAME | C | Name of the corporation or other business entity that controls the reporting facility. |

| No. | Field Name | Type | Description |
|-----|-------------------------|------|--|
| | | | <i>Source: TRI_FACILITY.PARENT_CO_NAME</i> <i>Reference: Part I, Section 5.1</i> |
| 40 | PARENT COMPANY D&B NR | C | Unique identification number assigned by Dun and Bradstreet to the parent company of the reporting facility. <i>Source: TRI_FACILITY.PARENT_CO_DB_NUM</i> <i>Reference: Part I, Section 5.2</i> |
| 41 | DOCUMENT CONTROL NUMBER | C | Unique identification number assigned to each submission by EPA. Format: TTYMMMMNNNNNC, where TT = document type YY = reporting year MMM = document type NNNNN= sequential number C = check digit <i>Source: TRI_REPORTING_FORM.DOC_CTRL_NUM</i> <i>Reference: NA (System-generated)</i> |
| 42 | CAS NUMBER | C | Chemical Abstracts Service (CAS) Registry Number for unique chemical, or category code (for compounds). NOTE: CAS number 999999999 is for sanitized trade secret submissions; CHEM_NAME displays the reported generic chemical name. <i>Source: TRI_REPORTING_FORM.TRI_CHEM_ID</i> <i>Reference: Part II, Section 1.1</i> |
| 43 | CHEMICAL NAME | | Name of the chemical or generic name if the chemical is claimed as a trade secret. <i>Source: TRI_REPORTING_FORM.CAS_CHEM_NAME</i> <i>Reference: Part II, Section 1.2 or Part II, Section 1.3</i> |
| 44 | CLASSIFICATION | C | Indicates the classification of the chemical. Chemicals can be classified as either a Dioxin or Dioxin-like compound, a Persistent, Bioaccumulative and Toxic chemical or a general EPCRA Section 313 chemical. Values: {TRI, PBT, DIOXIN} where: TRI = General EPCRA Section 313 Chem. PBT = Bioaccumulative and Toxic DIOXIN = Dioxin or Dioxin-like compound <i>Source: TRI_CHEM_INFO.CLASSIFICATION</i> <i>Reference: NONE</i> |
| 45 | UNIT OF MEASURE | C | Indicates the unit of measure used to quantify the chemical. Dioxin and dioxin-like compounds are measured in grams, while all other TRI chemicals are measured in pounds. Values: {Pounds, Grams} <i>Source: TRI_CHEM_INFO.UNIT_OF_MEASURE</i> <i>Reference: NONE</i> |
| 46 | DIOXIN DISTRIBUTION 1 | N | Indicates the percentage of 1,2,3,4,6,7,8 Heptachlorodibenzofuran (CAS # 67562-39-4) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). |

| No. | Field Name | Type | Description |
|-----|-----------------------|------|---|
| | | | <i>Source: TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_1</i> <i>Reference: Part II, Section 1.4</i> |
| 47 | DIOXIN DISTRIBUTION 2 | N | Indicates the percentage of 1,2,3,4,7,8,9 Heptachlorodibenzofuran (CAS # 55673-89-7) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). <i>Source: TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_2</i> <i>Reference: Part II, Section 1.4</i> |
| 48 | DIOXIN DISTRIBUTION 3 | N | Indicates the percentage of 1,2,3,4,7,8 Hexachlorodibenzofuran (CAS # 70648-26-9) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). <i>Source: TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_3</i> <i>Reference: Part II, Section 1.4</i> |
| 49 | DIOXIN DISTRIBUTION 4 | N | Indicates the percentage of 1,2,3,6,7,8 Hexachlorodibenzofuran (CAS # 57117-44-9) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). <i>Source: TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_4</i> <i>Reference: Part II, Section 1.4</i> |
| 50 | DIOXIN DISTRIBUTION 5 | N | Indicates the percentage of 1,2,3,7,8,9 Hexachlorodibenzofuran (CAS # 72918-21-9) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). <i>Source: TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_5</i> <i>Reference: Part II, Section 1.4</i> |
| 51 | DIOXIN DISTRIBUTION 6 | N | Indicates the percentage of 2,3,4,6,7,8 Hexachlorodibenzofuran (CAS # 60851-34-5) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). <i>Source: TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_6</i> <i>Reference: Part II, Section 1.4</i> |
| 52 | DIOXIN DISTRIBUTION 7 | N | Indicates the percentage of 1,2,3,4,7,8 Hexachlorodibenzo-p-dioxin (CAS # 39227-28-6) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). <i>Source: TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_7</i> <i>Reference: Part II, Section 1.4</i> |
| 53 | DIOXIN DISTRIBUTION 8 | N | Indicates the percentage of 1,2,3,6,7,8 Hexachlorodibenzo-p-dioxin (CAS # 5765385-7) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). <i>Source: TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_8</i> <i>Reference: Part II, Section 1.4</i> |
| 54 | DIOXIN DISTRIBUTION 9 | N | Indicates the percentage of 1,2,3,7,8,9 Hexachlorodibenzo- |

| No. | Field Name | Type | Description |
|-----|------------------------|------|--|
| | | | |
| | | | p-dioxin (CAS # 19408-74-3) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). <i>Source: TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_9</i> <i>Reference: Part II, Section 1.4</i> |
| 55 | DIOXIN DISTRIBUTION 10 | N | Indicates the percentage of 1,2,3,4,6,7,8 Heptachlorodibenzo-p-dioxin (CAS # 35822-46-9) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). <i>Source: TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_10</i> <i>Reference: Part II, Section 1.4</i> |
| 56 | DIOXIN DISTRIBUTION 11 | N | Indicates the percentage of 1,2,3,4,6,7,8,9 Octachlorodibenzofuran (CAS # 39001-02-0) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). <i>Source: TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_11</i> <i>Reference: Part II, Section 1.4</i> |
| 57 | DIOXIN DISTRIBUTION 12 | N | Indicates the percentage of 1,2,3,4,6,7,8,9 Octachlorodibenzo-p-dioxin (CAS # 03268-87-9) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). <i>Source: TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_12</i> <i>Reference: Part II, Section 1.4</i> |
| 58 | DIOXIN DISTRIBUTION 13 | N | Indicates the percentage of 1,2,3,7,8 Pentachlorodibenzofuran (CAS # 57117-41-6) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). <i>Source: TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_13</i> <i>Reference: Part II, Section 1.4</i> |
| 59 | DIOXIN DISTRIBUTION 14 | N | Indicates the percentage of 2,3,4,7,8 Pentachlorodibenzofuran (CAS # 57117-31-4) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). <i>Source: TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_14</i> <i>Reference: Part II, Section 1.4</i> |
| 60 | DIOXIN DISTRIBUTION 15 | N | Indicates the percentage of 1,2,3,7,8 Pentachlorodibenzo-p-dioxin (CAS # 40321-76-4) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). <i>Source: TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_15</i> <i>Reference: Part II, Section 1.4</i> |
| 61 | DIOXIN DISTRIBUTION 16 | N | Indicates the percentage of 2,3,7,8 Tetrachlorodibenzofuran (CAS # 51207-31-9) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). |

| No. | Field Name | Type | Description |
|-----|---|------|--|
| | | | <i>Source: TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_16</i> <i>Reference: Part II, Section 1.4</i> |
| 62 | DIOXIN DISTRIBUTION 17 | N | Indicates the percentage of 2,3,78 Tetrachlorodibenzo-p-dioxin (CAS # 01746-01-6) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). <i>Source: TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_17</i> <i>Reference: Part II, Section 1.4</i> |
| 63 | QUANTITY RELEASED PRIOR YEAR | N | The total amount of the chemical released on and off site during the previous year. Starting in RY 2003, the sum of all previous-year section 8.1 releases (8.1a.A + 8.1b.A + 8.1c.A + 8.1d.A) was inserted in this field. This is the sum of fields 125 + 129 + 133 + 137. <i>Source: TRI_SOURCE_REDUCT_QTY.REL_PREV_YR_QTY</i> <i>Reference: Part II, Section 8.1B</i> |
| 64 | QUANTITY RELEASED CURRENT YEAR | N | The total amount of the chemical released on and off site during the reporting year. Starting in RY 2003, the sum of all current-year section 8.1 releases (8.1a.B + 8.1b.B + 8.1c.B + 8.1d.B) was inserted in this field. This is the sum of fields 126 + 130 + 134 + 138. <i>Source: TRI_SOURCE_REDUCT_QTY.REL_CURR_YR_QTY</i> <i>Reference: Part II, Section 8.1B</i> |
| 65 | QUANTITY RELEASED FOLLOWING YEAR | N | The total amount of the chemical <u>projected</u> to be released in the first year following the reporting year. Starting in RY 2003, the sum of all following-year section 8.1 releases (8.1a.C + 8.1b.C + 8.1c.C + 8.1d.C) was inserted in this field. This is the sum of fields 127 + 131 + 135 + 139. <i>Source: TRI_SOURCE_REDUCT_QTY.REL_FOLL_YR_QTY</i> <i>Reference: Part II, Section 8.1C</i> |
| 66 | QUANTITY RELEASED SECOND FOLLOWING YEAR | N | The total amount of the chemical <u>projected</u> to be released in the second year following the reporting year. Starting in RY 2003, the sum of all second-following year section 8.1 releases (8.1a.D + 8.1b.D + 8.1c.D + 8.1d.D) was inserted in this field. This is the sum of fields 128 + 132 + 136 + 140. <i>Source: TRI_SOURCE_REDUCT_QTY.REL_SECD_YR_QTY</i> <i>Reference: Part II, Section 8.1D</i> |
| 67 | ENERGY RECOVERY ON SITE PRIOR YEAR | N | The total amount (in pounds) of the toxic chemical used on site for energy recovery during the previous year. <i>Source: TRI_SOURCE_REDUCT_QTY.ENERGY_ONSITE_PREV_YR_QTY</i> <i>Reference: Part II, Section 8.2A</i> |
| 68 | ENERGY RECOVERY ON SITE CURRENT YEAR | N | The total amount (in pounds) of the toxic chemical used |

| No. | Field Name | Type | Description |
|-----|--|------|---|
| | | | on site for energy recovery during the reporting year. <i>Source: TRI_SOURCE_REDUCT_QTY.</i> ENERGY_ONSITE_CURR_YR_QTY <i>Reference: Part II, Section 8.2B</i> |
| 69 | ENERGY RECOVERY ON SITE FOLLOWING YEAR | N | The total amount (in pounds) of the toxic chemical <u>projected</u> to be used on site for energy recovery in the first year following the reporting year. <i>Source: TRI_SOURCE_REDUCT_QTY.</i> ENERGY_ONSITE_FOLL_YR_QTY <i>Reference: Part II, Section 8.2C</i> |
| 70 | ENERGY RECOVERY ON SITE SECOND-FOLLOWING YEAR | | The total amount (in pounds) of the toxic chemical <u>projected</u> to be used on site for energy recovery in the second year following the reporting year. <i>Source: TRI_SOURCE_REDUCT_QTY.</i> ENERGY_ONSITE_SECD_YR_QTY Form R: Part II, Section 8.2D |
| 71 | ENERGY RECOVERY OFF SITE PRIOR YEAR | N | The total amount (in pounds) of the toxic chemical sent off site for energy recovery during the previous year. <i>Source: TRI_SOURCE_REDUCT_QTY.</i> ENERGY_OFFSITE_PREV_YR_QTY <i>Reference: Part II, Section 8.3A</i> |
| 72 | ENERGY RECOVERY OFF SITE CURRENT YEAR | N | The total amount (in pounds) of the toxic chemical sent off site for energy recovery during the reporting year. <i>Source: TRI_SOURCE_REDUCT_QTY.</i> ENERGY_OFFSITE_CURR_YR_QTY <i>Reference: Part II, Section 8.3B</i> |
| 73 | ENERGY RECOVERY OFF SITE FOLLOWING YEAR | N | The total amount (in pounds) of the toxic chemical <u>projected</u> to be sent off site for energy recovery in the first year following the reporting year. <i>Source: TRI_SOURCE_REDUCT_QTY.</i> ENERGY_OFFSITE_FOLL_YR_QTY Form R: Part II, Section 8.3C |
| 74 | ENERGY RECOVERY OFF SITE SECOND-FOLLOWING YEAR | N | The total amount (in pounds) of the toxic chemical <u>projected</u> to be sent off site for energy recovery in the first year following the reporting year. <i>Source: TRI_SOURCE_REDUCT_QTY.</i> ENERGY_OFFSITE_SECD_YR_QTY Form R: Part II, Section 8.3D |
| 75 | QUANTITY RECYCLED ON SITE PRIOR YEAR | N | The total amount (in pounds) of the toxic chemical recycled on site during the previous year. <i>Source: TRI_SOURCE_REDUCT_QTY.</i> RECYC_ONSITE_PREV_YR_QTY <i>Reference: Part II, Section 8.4A</i> |
| 76 | QUANTITY RECYCLED ON SITE CURRENT YEAR | N | The total amount (in pounds) of the toxic chemical recycled on site during the reporting year. <i>Source: TRI_SOURCE_REDUCT_QTY.</i> RECYC_ONSITE_CURR_YR_QTY <i>Reference: Part II, Section 8.4B</i> |

| No. | Field Name | Type | Description |
|-----|--|------|---|
| 77 | QUANTITY RECYCLED ON SITE FOLLOWING YEAR | N | <p>The total amount (in pounds) of the toxic chemical <u>projected</u> to be recycled on site in first year following the reporting year.</p> <p>Source: TRI_SOURCE_REDUCT_QTY. RECYC_ONSITE_FOLL_YR_QTY resource: Part II, Section 8.4C</p> |
| 78 | QUANTITY RECYCLED ON SITE SECOND-FOLLOWING YEAR | N | <p>The total amount (in pounds) of the toxic chemical <u>projected</u> to be recycled on site in the second year following the reporting year.</p> <p>Source: TRI_SOURCE_REDUCT_QTY. RECYC_ONSITE_SECD_YR_QTY Reference: Part II, Section 8.4D</p> |
| 79 | QUANTITY RECYCLED OFF SITE PRIOR YEAR | N | <p>The total amount (in pounds) of the toxic chemical sent off site for recycling during the previous year.</p> <p>Source: TRI_SOURCE_REDUCT_QTY. RECYC_OFFSITE_PREV_YR_QTY Reference: Part II, Section 8.5A</p> |
| 80 | QUANTITY RECYCLED OFF SITE CURRENT YEAR | N | <p>The total amount (in pounds) of the toxic chemical sent off site for recycling during the reporting year.</p> <p>Source: TRI_SOURCE_REDUCT_QTY. RECYC_OFFSITE_CURR_YR_QTY Reference: Part II, Section 8.5B</p> |
| 81 | QUANTITY RECYCLED OFF SITE FOLLOWING YEAR | N | <p>The total amount (in pounds) of the toxic chemical <u>projected</u> to be sent off site for recycling in the first year following the reporting year.</p> <p>Source: TRI_SOURCE_REDUCT_QTY. RECYC_OFFSITE_FOLL_YR_QTY Form R: Part II, Section 8.5C</p> |
| 82 | QUANTITY RECYCLED OFF SITE SECOND-FOLLOWING YEAR | N | <p>The total amount (in pounds) of the toxic chemical <u>projected</u> to be sent off site for energy recovery in the second year following the reporting year.</p> <p>Source: TRI_SOURCE_REDUCT_QTY. RECYC_OFFSITE_PREV_YR_QTY Reference: Part II, Section 8.5D</p> |
| 83 | QUANTITY TREATED ON SITE PRIOR YEAR | N | <p>The total amount (in pounds) of the toxic chemical treated on site during the previous year.</p> <p>Source: TRI_SOURCE_REDUCT_QTY. TREATED_ONSITE_PREV_YR_QTY Reference: Part II, Section 8.6A</p> |
| 84 | QUANTITY TREATED ON SITE CURRENT YEAR | N | <p>The total amount (in pounds) of the toxic chemical treated on site during the reporting year.</p> <p>Source: TRI_SOURCE_REDUCT_QTY. TREATED_ONSITE_CURR_YR_QTY Reference: Part II, Section 8.6B</p> |
| 85 | QUANTITY TREATED ON SITE FOLLOWING YEAR | N | <p>The total amount (in pounds) of the toxic chemical <u>projected</u> to be treated on site in the first year following the reporting year.</p> |

| No. | Field Name | Type | Description |
|-----|--|------|---|
| | | | <i>Source:</i> TRI_SOURCE_REDUCT_QTY. TREATED_ONSITE_FOLL_YR_QTY <i>Reference:</i> Part II, Section 8.6C |
| 86 | QUANTITY TREATED ON SITE SECOND-FOLLOWING YEAR | N | <p>The total amount (in pounds) of the toxic chemical <u>projected</u> to be treated on site in the second year following the reporting year.</p> <i>Source:</i> TRI_SOURCE_REDUCT_QTY. TREATED_ONSITE_SECD_YR_QTY <i>Reference:</i> Part II, Section 8.6D |
| 87 | QUANTITY TREATED OFF SITE PRIOR YEAR | N | <p>The total amount (in pounds) of the toxic chemical treated off site during the previous reporting year.</p> <i>Source:</i> TRI_SOURCE_REDUCT_QTY. TREATED_OFFSITE_PREV_YR_QTY <i>Reference:</i> Part II, Section 8.7A |
| 88 | QUANTITY TREATED OFF SITE CURRENT YEAR | N | <p>The total amount (in pounds) of the toxic chemical sent off site for treatment (including transfers to POTWs) during the reporting year.</p> <i>Source:</i> TRI_SOURCE_REDUCT_QTY. TREATED_OFFSITE_CURR_YR_QTY <i>Reference:</i> Part II, Section 8.7B |
| 89 | QUANTITY TREATED OFF SITE FOLLOWING YEAR | N | <p>The total amount (in pounds) of the toxic chemical sent off site for treatment (including transfers to POTWs) in the first year following the reporting year.</p> <i>Source:</i> TRI_SOURCE_REDUCT_QTY. TREATED_OFFSITE_FOLL_YR_QTY <i>Reference:</i> Part II, Section 8.7C |
| 90 | QUANTITY TREATED OFF SITE SECOND-FOLLOWING YEAR | N | <p>The total amount (in pounds) of the toxic chemical sent off site for treatment (including transfers to POTWs) in the second year following the reporting year.</p> <i>Source:</i> TRI_SOURCE_REDUCT_QTY. TREATED_OFFSITE_PREV_YR_QTY <i>Reference:</i> Part II, Section 8.7D |
| 91 | CATASTROPHIC RELEASES OR OTHER ONE-TIME EVENTS | N | <p>The total amount (in pounds) of the toxic chemical released to the environment or transferred off site due to events not associated with routine production processes.</p> <i>Source:</i> TRI_REPORTING_FORM.ONE_TIME_RELEASE_QTY <i>Reference:</i> Part II, Section 8.8 |
| 92 | PROD RATIO/ACTIVITY INDEX | N | <p>Ratio of production or activity in the reporting year divided by production or activity in the previous year. Field length is in the format of +nnnn.nn.</p> <i>Source:</i> TRI_REPORTING_FORM.PRODUCTION_RATIO <i>Reference:</i> Part II, Section 8.9 |
| 93 | FIRST SOURCE REDUCTION ACTIVITY CODE | C | <p>Activity code indicating the action taken by the facility to reduce the amount of the toxic chemical released, used for energy recovery, recycled, or treated. This is a “W” followed by two digits (sometimes called a “W code”).</p> <i>Source:</i> TRI_SOURCE_REDUCT_METHOD. |

| No. | Field Name | Type | Description |
|-----|---|------|--|
| | | | SOURCE_REDUCT_ACTIVITY <i>Reference:</i> Part II, Section 8.10.1 |
| 94 | FIRST SOURCE REDUCTION ACTIVITY DESCRIPTION | C | A text description of the preceding source reduction activity code. <i>Source:</i> TRI_CODE_DESC .DESCRIPTION <i>Reference:</i> Part II, Section 8.10.1 |
| 95 | FIRST SOURCE REDUCTION ACTIVITY IDENTIFICATION METHOD – CODE 1 | C | Code corresponding to the first method (or the information source) used to identify the possibility for implementing the first source reduction activity at the facility. This is a “T” followed by two digits (sometimes called a “T” code). <i>Source:</i> TRI_SOURCE_REDUCT_METHOD .SOURCE_REDUCT_METHOD_1 <i>Reference:</i> Part II, Section 8.10.1a |
| 96 | FIRST SOURCE REDUCTION ACTIVITY IDENTIFICATION METHOD - CODE 1 DESCRIPTION | C | A text description of the preceding source reduction activity identification method code. <i>Source:</i> TRI_DESC_CODE .DESCRIPTION <i>Reference:</i> Part II, Section 8.10.1a |
| 97 | FIRST SOURCE REDUCTION ACTIVITY IDENTIFICATION METHOD – CODE 2 | C | Code corresponding to the second method (or the information source) used to identify the possibility for implementing the first source reduction activity at the facility. This is a “T” followed by two digits (sometimes called a “T” code). <i>Source:</i> TRI_SOURCE_REDUCT_METHOD .SOURCE_REDUCT_METHOD_2 <i>Reference:</i> Part II, Section 8.10.1b |
| 98 | FIRST SOURCE REDUCTION ACTIVITY IDENTIFICATION METHOD - CODE 2 DESCRIPTION | C | A text description of the preceding source reduction activity identification method code. <i>Source:</i> TRI_DESC_CODE .DESCRIPTION <i>Reference:</i> Part II, Section 8.10.1b |
| 99 | FIRST SOURCE REDUCTION ACTIVITY IDENTIFICATION METHOD – CODE 3 | C | Code corresponding to the third method (or the information source) used to identify the possibility for implementing the first source reduction activity at the facility. This is a “T” followed by two digits (sometimes called a “T” code). <i>Source:</i> TRI_SOURCE_REDUCT_METHOD .SOURCE_REDUCT_METHOD_3 <i>Reference:</i> Part II, Section 8.10.1c |
| 100 | FIRST SOURCE REDUCTION ACTIVITY IDENTIFICATION METHOD - CODE 3 DESCRIPTION | C | A text description of the preceding source reduction activity identification method code. <i>Source:</i> TRI_DESC_CODE .DESCRIPTION <i>Reference:</i> Part II, Section 8.10.1c |
| 101 | SECOND SOURCE REDUCTION ACTIVITY CODE | C | Activity code indicating the second action taken by the facility to reduce the amount of the toxic chemical released, used for energy recovery, recycled, or treated. This is a “W” followed by two digits (sometimes called a “W code”). |

| No. | Field Name | Type | Description |
|-----|--|------|--|
| | | | <p><i>Source:</i> TRI_SOURCE_REDUCT_METHOD. SOURCE_REDUCT_ACTIVITY</p> <p><i>Reference:</i> Part II, Section 8.10.2</p> |
| 102 | SECOND SOURCE REDUCTION ACTIVITY DESCRIPTION | C | <p>A text description of the preceding source reduction activity code.</p> <p><i>Source:</i> TRI_CODE_DESC.DESCRIPTION</p> <p><i>Reference:</i> Part II, Section 8.10.2</p> |
| 103 | SECOND SOURCE REDUCTION ACTIVITY IDENTIFICATION METHOD – CODE 1 | C | <p>Code corresponding to the first method (or the information source) used to identify the possibility for implementing the second source reduction activity at the facility. This is a “T” followed by two digits (sometimes called a “T” code).</p> <p><i>Source:</i> TRI_SOURCE_REDUCT_METHOD. SOURCE_REDUCT_METHOD_1</p> <p><i>Reference:</i> Part II, Section 8.10.2.a</p> |
| 104 | SECOND SOURCE REDUCTION ACTIVITY IDENTIFICATION METHOD - CODE 1 DESCRIPTION | C | <p>A text description of the preceding source reduction activity identification method code.</p> <p><i>Source:</i> TRI_DESC_CODE.DESCRIPTION</p> <p><i>Reference:</i> Part II, Section 8.10.2.a</p> |
| 105 | SECOND SOURCE REDUCTION ACTIVITY IDENTIFICATION METHOD – CODE 2 | C | <p>Code corresponding to the second method (or the information source) used to identify the possibility for implementing the second source reduction activity at the facility. This is a “T” followed by two digits (sometimes called a “T” code).</p> <p><i>Source:</i> TRI_SOURCE_REDUCT_METHOD. SOURCE_REDUCT_METHOD_2</p> <p><i>Reference:</i> Part II, Section 8.10.2b</p> |
| 106 | SECOND SOURCE REDUCTION ACTIVITY IDENTIFICATION METHOD - CODE 2 DESCRIPTION | C | <p>A text description of the preceding source reduction activity identification method code.</p> <p><i>Source:</i> TRI_DESC_CODE.DESCRIPTION</p> <p><i>Reference:</i> Part II, Section 8.10.2b</p> |
| 107 | SECOND SOURCE REDUCTION ACTIVITY IDENTIFICATION METHOD – CODE 3 | C | <p>Code corresponding to the third method (or the information source) used to identify the possibility for implementing the second source reduction activity at the facility. This is a “T” followed by two digits (sometimes called a “T” code).</p> <p><i>Source:</i> TRI_SOURCE_REDUCT_METHOD. SOURCE_REDUCT_METHOD_3</p> <p><i>Reference:</i> Part II, Section 8.10.2.c</p> |
| 108 | SECOND SOURCE REDUCTION ACTIVITY IDENTIFICATION METHOD - CODE 3 DESCRIPTION | C | <p>A text description of the preceding source reduction activity identification method code.</p> <p><i>Source:</i> TRI_DESC_CODE.DESCRIPTION</p> <p><i>Reference:</i> Part II, Section 8.10.2.c</p> |
| 109 | THIRD SOURCE REDUCTION ACTIVITY CODE | C | <p>Activity code indicating the third action taken by the facility to reduce the amount of the toxic chemical released, used for energy recovery, recycled, or treated. This is a “W” followed by two digits (sometimes called a</p> |

| No. | Field Name | Type | Description |
|-----|---|------|---|
| | | | <p>“W code”).</p> <p><i>Source:</i> TRI_SOURCE_REDUCT_METHOD. SOURCE_REDUCT_ACTIVITY</p> <p><i>Reference:</i> Part II, Section 8.10.3</p> |
| 110 | THIRD SOURCE REDUCTION ACTIVITY DESCRIPTION | C | <p>A text description of the preceding source reduction activity code.</p> <p><i>Source:</i> TRI_CODE_DESC.DESCRIPTION</p> <p><i>Reference:</i> Part II, Section 8.10.3</p> |
| 111 | THIRD SOURCE REDUCTION ACTIVITY IDENTIFICATION METHOD – CODE 1 | C | <p>Code corresponding to the first method (or the information source) used to identify the possibility for implementing the third source reduction activity at the facility. This is a “T” followed by two digits (sometimes called a “T” code).</p> <p><i>Source:</i> TRI_SOURCE_REDUCT_METHOD. SOURCE_REDUCT_METHOD_1</p> <p><i>Reference:</i> Part II, Section 8.10.3a</p> |
| 112 | THIRD SOURCE REDUCTION ACTIVITY IDENTIFICATION METHOD – CODE 1 DESCRIPTION | C | <p>A text description of the preceding source reduction activity identification method code.</p> <p><i>Source:</i> TRI_DESC_CODE.DESCRIPTION</p> <p><i>Reference:</i> Part II, Section 8.10.3a</p> |
| 113 | THIRD SOURCE REDUCTION ACTIVITY IDENTIFICATION METHOD – CODE 2 | C | <p>Code corresponding to the second method (or the information source) used to identify the possibility for implementing the third source reduction activity at the facility. This is a “T” followed by two digits (sometimes called a “T” code).</p> <p><i>Source:</i> TRI_SOURCE_REDUCT_METHOD. SOURCE_REDUCT_METHOD_2</p> <p><i>Reference:</i> Part II, Section 8.10.3b</p> |
| 114 | THIRD SOURCE REDUCTION ACTIVITY IDENTIFICATION METHOD – CODE 2 DESCRIPTION | C | <p>A text description of the preceding source reduction activity identification method code.</p> <p><i>Source:</i> TRI_DESC_CODE.DESCRIPTION</p> <p><i>Reference:</i> Part II, Section 8.10.3b</p> |
| 115 | THIRD SOURCE REDUCTION ACTIVITY IDENTIFICATION METHOD – CODE 3 | C | <p>Code corresponding to the third method (or the information source) used to identify the possibility for implementing the third source reduction activity at the facility. This is a “T” followed by two digits (sometimes called a “T” code).</p> <p><i>Source:</i> TRI_SOURCE_REDUCT_METHOD. SOURCE_REDUCT_METHOD_3</p> <p><i>Reference:</i> Part II, Section 8.10.3c</p> |
| 116 | THIRD SOURCE REDUCTION ACTIVITY IDENTIFICATION METHOD – CODE 3 DESCRIPTION | C | <p>A text description of the preceding source reduction activity identification method code.</p> <p><i>Source:</i> TRI_DESC_CODE.DESCRIPTION</p> <p><i>Reference:</i> Part II, Section 8.10.3c</p> |
| 117 | FOURTH SOURCE REDUCTION ACTIVITY CODE | C | <p>Activity code indicating the fourth action taken by the facility to reduce the amount of the toxic chemical released, used for energy recovery, recycled, or treated.</p> |

| No. | Field Name | Type | Description |
|-----|---|------|--|
| | | | <p>This is a “W” followed by two digits (sometimes called a “W code”).</p> <p><i>Source:</i> TRI_SOURCE_REDUCT_METHOD. SOURCE_REDUCT_ACTIVITY</p> <p><i>Reference:</i> Part II, Section 8.10.4</p> |
| 118 | FOURTH SOURCE REDUCTION ACTIVITY DESCRIPTION | C | <p>A text description of the preceding source reduction activity code.</p> <p><i>Source:</i> TRI_CODE_DESC.DESCRIPTION</p> <p><i>Reference:</i> Part II, Section 8.10.4</p> |
| 119 | FOURTH SOURCE REDUCTION ACTIVITY IDENTIFICATION METHOD – CODE 1 | C | <p>Code corresponding to the first method (or the information source) used to identify the possibility for implementing the fourth source reduction activity at the facility. This is a “T” followed by two digits (sometimes called a “T” code).</p> <p><i>Source:</i> TRI_SOURCE_REDUCT_METHOD. SOURCE_REDUCT_METHOD_1</p> <p><i>Reference:</i> Part II, Section 8.10.4a</p> |
| 120 | FOURTH SOURCE REDUCTION ACTIVITY IDENTIFICATION METHOD – CODE 1 DESCRIPTION | C | <p>A text description of the preceding source reduction activity identification method code.</p> <p><i>Source:</i> TRI_DESC_CODE.DESCRIPTION</p> <p><i>Reference:</i> Part II, Section 8.10.4a</p> |
| 121 | FOURTH SOURCE REDUCTION ACTIVITY IDENTIFICATION METHOD – CODE 2 | C | <p>Code corresponding to the second method (or the information source) used to identify the possibility for implementing the fourth source reduction activity at the facility. This is a “T” followed by two digits (sometimes called a “T” code).</p> <p><i>Source:</i> TRI_SOURCE_REDUCT_METHOD. SOURCE_REDUCT_METHOD_2</p> <p><i>Reference:</i> Part II, Section 8.10.4b</p> |
| 122 | FOURTH SOURCE REDUCTION ACTIVITY IDENTIFICATION METHOD – CODE 2 DESCRIPTION | C | <p>A text description of the preceding source reduction activity identification method code.</p> <p><i>Source:</i> TRI_DESC_CODE.DESCRIPTION <i>Reference:</i> Part II, Section 8.10.4b</p> |
| 123 | FOURTH SOURCE REDUCTION ACTIVITY IDENTIFICATION METHOD – CODE 3 | C | <p>Code corresponding to the second method (or the information source) used to identify the possibility for implementing the fourth source reduction activity at the facility. This is a “T” followed by two digits (sometimes called a “T” code).</p> <p><i>Source:</i> TRI_SOURCE_REDUCT_METHOD. SOURCE_REDUCT_METHOD_3</p> <p><i>Reference:</i> Part II, Section 8.10.4c</p> |
| 124 | FOURTH SOURCE REDUCTION ACTIVITY IDENTIFICATION METHOD – CODE 3 DESCRIPTION | C | <p>A text description of the preceding source reduction activity identification method code.</p> <p><i>Source:</i> TRI_DESC_CODE.DESCRIPTION</p> <p><i>Reference:</i> Part II, Section 8.10.4c</p> |
| 125 | ON-SITE LIMITED RELEASES - PRIOR YEAR | N | <p>Total quantity of on-site releases to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other</p> |

| No. | Field Name | Type | Description |
|-----|---|------|--|
| | | | landfills in the previous year. <i>Source:</i> TRI_SOURCE_REDUCT_QTY. REL_81a_PREV_YR_QTY <i>Reference:</i> Part II, Section 8.1a Col A. |
| 126 | ON-SITE LIMITED RELEASES – CURRENT YEAR | N | Total quantity of on-site releases to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills in the current year. <i>Source:</i> TRI_SOURCE_REDUCT_QTY. REL_81a_CURR_YR_QTY <i>Reference:</i> Part II, Section 8.1a Col B. |
| 127 | ON-SITE LIMITED RELEASES – FOLLOWING YEAR | N | Projected total quantity of on-site releases to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills in the current year. <i>Source:</i> TRI_SOURCE_REDUCT_QTY. REL_81a_FOLL_YR_QTY <i>Reference:</i> Part II, Section 8.1a Col C. |
| 128 | ON-SITE LIMITED RELEASES – SECOND FOLLOWING YEAR | N | Projected total quantity of on-site releases to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills in the second year following the reporting year. <i>Source:</i> TRI_SOURCE_REDUCT_QTY. REL_81a_SECD_YR_QTY <i>Reference:</i> Part II, Section 8.1a Col D. |
| 129 | OTHER ON-SITE RELEASES – PRIOR YEAR | N | Total quantity of other on-site releases in the previous year. Specifically: total air emissions + total surface water discharges + underground injection to Class II-V wells + land treatment/application farming + RCRA Subtitle C surface impoundments + other surface impoundments + other disposal. <i>Source:</i> TRI_SOURCE_REDUCT_QTY. REL_81b_PREV_YR_QTY <i>Reference:</i> Part II, Section 8.1b Col A. |
| 130 | OTHER ON-SITE RELEASES - CURRENT YEAR | N | Total quantity of other on-site releases in the current reporting year. Specifically: total air emissions + total surface water discharges + underground injection to Class II-V wells + land treatment/application farming + RCRA Subtitle C surface impoundments + other surface impoundments + other disposal. <i>Source:</i> TRI_SOURCE_REDUCT_QTY. REL_81b_CURR_YR_QTY <i>Reference:</i> Part II, Section 8.1b Col B. |
| 131 | OTHER ON-SITE RELEASES - FOLLOWING YEAR | N | Projected total quantity of other on-site releases in the year following the current reporting year. Specifically: total air emissions + total surface water discharges + underground injection to Class II-V wells + land treatment/application farming + RCRA Subtitle C surface impoundments + other surface impoundments + other disposal. |

| No. | Field Name | Type | Description |
|-----|---|------|--|
| | | | <i>Source:</i> TRI_SOURCE_REDUCT_QTY. REL_81b_FOLL_YR_QTY <i>Reference:</i> Part II, Section 8.1b Col C. |
| 132 | OTHER ON-SITE RELEASES – SECOND FOLLOWING YEAR | N | <p>Projected total quantity of other on-site releases in the second year following the current reporting year. Specifically: total air emissions + total surface water discharges + underground injection to Class II-V wells + land treatment/application farming + RCRA Subtitle C surface impoundments + other surface impoundments + other disposal.</p> <i>Source:</i> TRI_SOURCE_REDUCT_QTY. REL_81b_SECD_YR_QTY <i>Reference:</i> Part II, Section 8.1b Col D. |
| 133 | OFF-SITE LIMITED RELEASES – PRIOR YEAR | N | <p>Total quantity of off-site releases to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills in the previous year.</p> <i>Source:</i> TRI_SOURCE_REDUCT_QTY. REL_81c_PREV_YR_QTY <i>Reference:</i> Part II, Section 8.1c Col A. |
| 134 | OFF-SITE LIMITED RELEASES – CURRENT YEAR | N | <p>Total quantity of off-site releases to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills in the current year.</p> <i>Source:</i> TRI_SOURCE_REDUCT_QTY. REL_81c_CURR_YR_QTY <i>Reference:</i> Part II, Section 8.1c Col B. |
| 135 | OFF-SITE LIMITED RELEASES - FOLLOWING YEAR | N | <p>Projected total quantity of off-site releases to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills in the year following the current reporting year.</p> <i>Source:</i> TRI_SOURCE_REDUCT_QTY. REL_81c_FOLL_YR_QTY <i>Reference:</i> Part II, Section 8.1c Col C. |
| 136 | OFF-SITE LIMITED RELEASES - SECOND FOLLOWING YEAR | N | <p>Projected total quantity of off-site releases to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills in the second year following the current reporting year.</p> <i>Source:</i> TRI_SOURCE_REDUCT_QTY. REL_81c_SECD_YR_QTY <i>Reference:</i> Part II, Section 8.1c Col D. |
| 137 | OTHER OFF-SITE RELEASES – PREVIOUS YEAR | N | <p>Total quantity of other off-site releases in the previous year. Specifically: total air emissions + total surface water discharges + underground injection to Class II-V wells + land treatment/application farming + RCRA Subtitle C surface impoundments + other surface impoundments + other disposal.</p> <i>Source:</i> TRI_SOURCE_REDUCT_QTY. REL_81d_PREV_YR_QTY <i>Reference:</i> Part II, Section 8.1d Col A. |

| No. | Field Name | Type | Description |
|-----|---|------|---|
| 138 | OTHER OFF-SITE RELEASES – CURRENT YEAR | N | <p>Total quantity of other off-site releases in the current year. Specifically: total air emissions + total surface water discharges + underground injection to Class II-V wells + land treatment/application farming + RCRCA Subtitle C surface impoundments + other surface impoundments + other disposal.</p> <p><i>Source:</i> TRI_SOURCE_REDUCT_QTY. REL_81d_CURR_YR_QTY <i>Reference:</i> Part II, Section 8.1d Col B.</p> |
| 139 | OTHER OFF-SITE RELEASES – FOLLOWING YEAR | N | <p>Projected total quantity of other off-site releases in the year following the current reporting year. Specifically: total air emissions + total surface water discharges + underground injection to Class II-V wells + land treatment/application farming + RCRCA Subtitle C surface impoundments + other surface impoundments + other disposal.</p> <p><i>Source:</i> TRI_SOURCE_REDUCT_QTY. REL_81d_FOLL_YR_QTY <i>Reference:</i> Part II, Section 8.1d Col C.</p> |
| 140 | OTHER OFF-SITE RELEASES – SECOND FOLLOWING YEAR | N | <p>Projected total quantity of other off-site releases in the second year following the current reporting year. Specifically: total air emissions + total surface water discharges + underground injection to Class II-V wells + land treatment/application farming + RCRCA Subtitle C surface impoundments + other surface impoundments + other disposal.</p> <p><i>Source:</i> TRI_SOURCE_REDUCT_QTY. REL_81d_SECD_YR_QTY <i>Reference:</i> Part II, Section 8.1d Col D.</p> |
| 141 | ASSIGNED FED. FACILITY FLAG | C | <p>Code indicating whether this is a federal facility or not. Assigned by TRI.</p> <p>Yes = Federal No = Non-Federal</p> <p><i>Source:</i> TRI_FACILITY.ASGN_FEDERAL</p> |
| 142 | PUBLIC CONTACT EMAIL | C | <p>Email address of the person at the facility whom the public may contact with questions about the facility's data.</p> <p><i>Source:</i> TRI_REPORTING_FORM.PUBLIC_CONTACT_PERSON_EMAIL <i>Reference:</i> Part I, Section 4.4</p> |
| 143 | REVISION CODE 1 | C | <p>Code indicating the reason the facility revised its data. Values:</p> <p>RR1 = New Monitoring Data RR2 = New Emission Factors RR3 = New Chemical Concentration Data RR4 = Recalculation(s) RR5 = Other Reason(s)</p> <p><i>Source:</i> TRI_REPORTING_FORM.Revision_Code_1</p> |

| No. | Field Name | Type | Description |
|-----|-----------------|------|--|
| 144 | REVISION CODE 2 | C | <p>Code indicating the reason the facility revised its data. Values:</p> <p>RR1 = New Monitoring Data</p> <p>RR2 = New Emission Factors</p> <p>RR3 = New Chemical Concentration Data</p> <p>RR4 = Recalculation(s)</p> <p>RR5 = Other Reason(s)</p> <p><i>Source: TRI_REPORTING_FORM.Revision_Code_2</i></p> |
| 145 | METAL_IND | C | <p>Code indicating whether the chemical is a metal or not.</p> <p>Yes = Metal</p> <p>No = Non-Metal</p> <p><i>Source: TRI_CHEM_INFO.Metal_Ind</i></p> |

APPENDIX A – LIST OF VALUES

Section 7A. On-Site Waste Treatment Methods and Efficiency General Waste Stream

- A Gaseous (gases, vapors, airborne particulates) W
Wastewater (aqueous waste)
- L Liquid waste streams (non-aqueous waste)
- S Solid waste streams (including sludges and slurries) **Waste Treatment**

Methods (New list for Codes for RY 2006) Air Emissions Treatment

- A01 Flare
- A02 Condenser
- A03 Scrubber
- A04 Absorber
- A05 Electrostatic Precipitator
- A06 Mechanical Separation
- A07 Other Air Emission Treatment

Chemical Treatment

- H040 Incineration--thermal destruction other than use as a fuel
- H071 Chemical reduction with or without precipitation
- H073 Cyanide destruction with or without precipitation
- H075 Chemical oxidation
- H076 Wet air oxidation
- H077 Other chemical precipitation with or without pre-treatment

Biological Treatment

- H081 Biological treatment with or without precipitation

Physical Treatment

- H082 Adsorption
- H083 Air or steam stripping
- H101 Sludge treatment and/or dewatering
- H103 Absorption
- H111 Stabilization or chemical fixation prior to disposal
- H112 Macro-encapsulation prior to disposal
- H121 Neutralization
- H122 Evaporation
- H123 Settling or clarification
- H124 Phase separation
- H129 Other treatment

Section 7B. On-Site Energy Recovery Processes

- U01 Industrial Kiln
- U02 Industrial Furnace
- U03 Industrial Boiler

Section 7C. On-Site Recycling Processes

- H10 Metal recovery (by retorting, smelting, or chemical or physical extraction)
H20 Solvent recovery (including distillation, evaporation, fractionation or extraction)
H39 Other recovery or reclamation for reuse (including acid regeneration or other chemical reaction process)

Crosswalk for Section 7A, Column B. Waste Treatment Method (s) Sequence

| Air Emissions Treatment (applicable to gaseous waste streams only) (No change - same as previous codes) | | | |
|--|------------------------------|--|--|
| A01 | Flare | | |
| A02 | Condenser | | |
| A03 | Scrubber | | |
| A04 | Absorber | | |
| A05 | Electrostatic Precipitator | | |
| A06 | Mechanical Separation | | |
| A07 | Other Air Emission Treatment | | |
| Previous Codes | | New Codes (adapted from RCRA Hazardous Waste Management Codes) | |
| Biological Treatment: | | | |
| B11 | Aerobic | H081 | Biological treatment with or without precipitation |
| B21 | Anaerobic | H081 | Biological treatment with or without precipitation |
| B31 | Facultative | H081 | Biological treatment with or without precipitation |
| B99 | Other Biological Treatment | H081 | Biological treatment with or without precipitation |
| | | | |

| Previous Codes | | New Codes (adapted from RCRA Hazardous Waste Management Codes) | |
|---------------------|---|--|--|
| | | | |
| Chemical Treatment: | | | |
| C01 | Chemical Precipitation B Lime or Sodium Hydroxide | H071 | Chemical reduction with or without precipitation |
| C02 | Chemical Precipitation B Sulfide | H071 | Chemical reduction with or without precipitation |
| C09 | Chemical Precipitation B Other | H077 | Other chemical precipitation with or without pre-treatment |
| C11 | Neutralization | H121 | Neutralization |

| | | | |
|--|---|--|---|
| C21 | Chromium Reduction | H071 | Chemical reduction with or without precipitation |
| C31 | Complexed Metals Treatment (other than pH adjustment) | H129 | Other treatment |
| C41 | Cyanide Oxidation B Alkaline Chlorination | H073 | Cyanide destruction with or without precipitation |
| C42 | Cyanide Oxidation B Electrochemical | H073 | Cyanide destruction with or without precipitation |
| C43 | Cyanide Oxidation B Other | H073 | Cyanide destruction with or without precipitation |
| C44 | General Oxidation (including Disinfection) B Chlorination | H075 | Chemical oxidation |
| C45 | General Oxidation (including Disinfection) B Ozonation | H075 | Chemical oxidation |
| C46 | General Oxidation (including Disinfection) B Other | H075 | Chemical oxidation |
| C99 | Other Chemical Treatment | H129 | Other treatment |
| <p>Incineration/Thermal Treatment: (Note: Only report combustion for the purposes of incineration/thermal treatment in Section 7A. If the method involves combustion for the purposes of energy recover, report as U01, U02, or U03 in Section 7B. If the method involves combustion for the purposes of materials recovery, report as H39 in Section 7C.)</p> | | | |
| F01 | Liquid Injection | H040 | Incineration B thermal destruction other than use as a fuel |
| F11 | Rotary Kiln with Liquid Injection Unit | H040 | Incineration B thermal destruction other than use as a fuel |
| F19 | Other Rotary Kiln | H040 | Incineration B thermal destruction other than use as a fuel |
| F31 | Two Stage | H040 | Incineration B thermal destruction other than use as a fuel |
| F41 | Fixed Hearth | H040 | Incineration B thermal destruction other than use as a fuel |
| Previous Codes | | New Codes (adapted from RCRA Hazardous Waste Management Codes) | |
| F42 | Multiple Hearth | H040 | Incineration B thermal destruction other than use as a fuel |
| F51 | Fluidized Bed | H040 | Incineration B thermal destruction other than use as a fuel |
| F61 | Infra-Red | H040 | Incineration B thermal destruction other than use as a fuel |

| | | | |
|-------------------------------|--|--|---|
| F71 | Fume/Vapor | H040 | Incineration B thermal destruction other than use as a fuel |
| F81 | Pyrolytic destructor | H040 | Incineration B thermal destruction other than use as a fuel |
| F82 | Wet air oxidation | H076 | Wet air oxidation |
| F83 | Thermal Drying/Dewatering | H122 | Evaporation |
| F99 | Other Incineration/Thermal Treatment | H040 | Incineration B thermal destruction other than use as a fuel |
| Physical Treatment: | | | |
| P01 | Equalization | H129 | Other treatment |
| P09 | Other blending | H129 | other treatment |
| P11 | Settling/clarification | H123 | Settling or clarification |
| P12 | Filtration | H123 | Settling or clarification |
| P13 | Sludge dewatering (non-thermal) | H101 | Sludge treatment and/or dewatering |
| P14 | Air flotation | H124 | Phase separation |
| P15 | Oil skimming | H124 | Phase separation |
| P16 | Emulsion breaking B thermal | H124 | Phase separation |
| P17 | Emulsion breaking B chemical | H124 | Phase separation |
| P18 | Emulsion breaking B other | H124 | Phase separation |
| P19 | Other liquid phase separation | H124 | Phase separation |
| P21 | Adsorption B Carbon | H082 | Adsorption |
| P22 | Adsorption B Ion exchange (other than for | H082 | Adsorption |
| P23 | Adsorption B Resin | H082 | Adsorption |
| P29 | Adsorption B Other | H082 | Adsorption |
| P31 | Reverse Osmosis (other than for | H129 | Other treatment |
| P41 | Stripping B Air | H083 | Air or steam stripping |
| P42 | Stripping B Steam | H083 | Air or steam stripping |
| Previous Codes | | New Codes (adapted from RCRA Hazardous Waste Management Codes) | |
| P49 | Stripping B Other | H083 | Air or steam stripping |
| P51 | Acid Leaching (other than for recovery/reuse) | H129 | Other treatment |
| P61 | Solvent Extraction (other than recovery/reuse) | H129 | Other treatment |
| P99 | Other Physical Treatment | H129 | Other treatment |
| Solidification/Stabilization: | | | |

| | | | |
|-----|--|------|--|
| G01 | Cement processes (including silicates) | H111 | Stabilization or chemical fixation prior to disposal |
| G09 | Other Pozzolonic Processes (including silicates) | H111 | Stabilization or chemical fixation prior to disposal |
| G11 | Asphaltic Techniques | H111 | Stabilization or chemical fixation prior to disposal |
| G20 | Thermoplastic Techniques | H111 | Stabilization or chemical fixation prior to disposal |
| G99 | Other Solidification Processes | H111 | Stabilization or chemical fixation prior to disposal |

Chemical Classifications

| Category 1 Metals | Category 2 Metals |
|---|--|
| ANTIMONY | ALUMINUM OXIDE (FIBROUS FORMS) |
| ANTIMONY COMPOUNDS | ALUMINUM PHOSPHIDE |
| ARSENIC | ASBESTOS (FRIABLE) |
| ARSENIC COMPOUNDS | BIS(TRIBUTYLTIN) OXIDE |
| BERYLLIUM | BORON TRICHLORIDE |
| BERYLLIUM COMPOUNDS | BORON TRIFLUORIDE |
| CADMIUM | C.I. DIRECT BLUE 218 |
| CADMIUM COMPOUNDS | C.I. DIRECT BROWN 95 |
| CHROMIUM | FENBUTATIN OXIDE |
| CHROMIUM COMPOUNDS (EXCEPT CHROMITE ORE MINED IN THE TRANSVAAL REGION) | FERBAM |
| COBALT | IRON PENTACARBONYL |
| COBALT COMPOUNDS | LITHIUM CARBONATE |
| COPPER | MANEB |
| COPPER COMPOUNDS | METIRAM |
| LEAD | MOLYBDENUM TRIOXIDE |
| LEAD COMPOUNDS | OSMIUM TETROXIDE |
| MANGANESE | POTASSIUM BROMATE |
| MANGANESE COMPOUNDS | SODIUM NITRITE |
| MERCURY | THORIUM DIOXIDE |
| MERCURY COMPOUNDS | TITANIUM TETRACHLORIDE |
| NICKEL | TRIBUTYLTIN FLUORIDE |
| NICKEL COMPOUNDS | TRIBUTYLTIN METHACRYLATE |
| SELENIUM | TRIPHENYLTIN CHLORIDE |
| SELENIUM COMPOUNDS | TRIPHENYLTIN HYDROXIDE |
| SILVER | ZINEB |
| SILVER COMPOUNDS | |
| THALLIUM | Category 4 Metals |
| THALLIUM COMPOUNDS | ALUMINUM (FUME OR DUST) |
| VANADIUM COMPOUNDS | VANADIUM (EXCEPT WHEN CONTAINED IN AN ALLOY) |
| ZINC COMPOUNDS | ZINC (FUME OR DUST) |
| Category 3 Metals | |
| BARIUM | |
| BARIUM COMPOUNDS | |