TOXICS RELEASE INVENTORY (TRI)

BASIC DATA FILES DOCUMENTATION

Updated for RY 2023

August 2024

United States Environmental Protection Agency

AN OVERVIEW OF TRI BASIC DATA FILES

Industrial facilities that meet Toxics Release Inventory (TRI) Program reporting requirements submit their data to EPA using either the Reporting Form R or Form A. Each "Basic" data file contains the 100 most-requested data fields from the TRI reporting form, including the quantities of toxic chemicals released into the environment on site at facilities; the quantities transferred off site to other facilities; and summary data concerning releases, recycling, energy recovery and treatment.

There are four types of basic data files:

1) The “state data files” contain data for one state, district or U.S. territory for each calendar year. For example, the 2016 Alabama state data file has all the data for Alabama-located facilities that submitted TRI data for calendar year 2016.
2) The “national data files” contain all the TRI data for the United States for a specific calendar year. This includes data for all 50 states and the six U.S. districts and territories (i.e., American Samoa, District of Columbia, Guam, Northern Mariana Islands, Puerto Rico and the Virgin Islands).
3) The “federal facility data files” contain data for all government-owned federal sites for a specific calendar year.
4) The “tribal data files” contain data for all facilities located on tribal lands that submitted TRI data for a specific calendar year.

WHAT'S IN THIS DOCUMENT

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 data files.

Column	Description
Number (No.)	The sequential number of the data element in the record
Field Name	The name of the data element (Note: these names correspond to the column headings in the data files themselves.)
Data Type	'C' for character data (alphanumeric) 'N' for numeric data 'D' for date
Description	A brief description of what the data element represents and where on the TRI reporting form it is reported (i.e., reference). Also included is an indication of the maximum length of the data element. For numeric data, comma notation is used for numbers that may contain decimals. For example, a "maximum length" value of "22,7" indicates that the number can be 22 digits long with 7 digits to the right of the decimal point.

When you open any of the Basic data files, you'll see that the contents are delimited by commas, meaning a comma is placed between each data element. The first row of each file contains column headers, which correspond to the "field names" in this document.

	YEAR	TRI_FACILITY_ID	FRS_ID	FACILITY_NAME
2	2016	32206PRTCN151TA	110031019083	PORT CONSOLIDATED INC
3	2016	32218SMCXX1181I	110009078425	SEMCO
4	2016	33605CTGPT801MC	110027973263	CITGO PETROLEUM CORP
5	2016	33411CNSLD1782S	110000493029	PORT CONSOLIDATED INC
6	2016	33430SGRSP1281S	110000917624	SUGAR SUPPLY INC

Example of the first columns and rows of a Basic data file

REMINDER: Quantities of dioxin and dioxin-like compounds are in grams. Quantities of all other TRI chemicals are reported in pounds. Facilities cannot use range codes to report quantities for dioxin and dioxin-like compounds and other Persistent Bioaccumulative Toxics (PBTs). For a list of PBT chemicals see "Appendix B - Persistent Bioaccumulative Toxics (PBTs)."

HELPFUL RESOURCES FOR USERS OF DOWNLOADABLE DATA FILES

When using any of the downloadable TRI data files, it will be helpful for users to refer to the TRI Reporting Form R, the TRI Reporting Forms & Instructions document, and the Envirofacts TRI data model. The Reporting Forms & Instructions document and sample reporting forms are available online in the GuideME application at www.epa.gov/tri/guideme. The Envirofacts TRI data model is found at https://www.epa.gov/enviro/tri-model. These resources provide useful context and have additional details about certain data elements.

ZEROES IN THE DATA

The TRI Basic Data Files are intended to be loaded into spreadsheets, databases and statistical applications. Some of these tools require that numeric data fields be populated with a number (and not a blank) for the tool to work correctly. For instance, to calculate a total for a spreadsheet column, all rows in that column must contain a number and not be blank.

Considering this, the TRI Program has inserted zeroes into the TRI Basic Data Files in places where numeric data fields were blank. There are three reasons why a numeric data field on a TRI reporting form may be blank. The first is facilities that report "NA" or "Not Applicable" for a quantity on the Form R. Reporting "NA" means that the release or waste management quantity is not possible for that facility. For example, if a facility is not located near a water body, it will not have the ability to release any of the chemical to water. Therefore, in section 5.3 of the Reporting Form R, the facility would enter "NA" for on-site water releases. The TRI Reporting Forms and Instructions contain more information on the use of "NA" in TRI reporting.

The second case where zeroes appear instead of blanks occurs when facilities do not respond to quantity questions on the Form R, leaving them blank. This was primarily an issue prior to the TRI Electronic Reporting Rule, when the TRI Program still accepted paper reporting forms. The TRI-MEweb reporting software, however, doesn't allow blanks in the reporting of quantity data; facilities are required to enter a number or indicate "NA."

The third case occurs when facilities submit a Form A Certification Statement (also referred to as a Form A). Form A allows facilities otherwise meeting EPCRA Section 313 reporting thresholds the option to certify that, for a particular chemical, they do not exceed 500 pounds for the total annual reportable amount and that their amounts manufactured, processed, or otherwise used do not exceed one million pounds. Form A only requires facilities to identify themselves and list the qualified chemicals(s) they are reporting. Facilities do not have to report any release or other waste management information (normally reported in Part II of the Form R) for the chemical(s). The Basic Data file record will contain zeroes for all release and other management quantities from a Form A. Field 49, "Form Type" indicates if a form is a Form A or a Form R. See the TRI Reporting Forms and Instructions for more information on the Form A.

No.	Field Name	Type	Description
1	YEAR	C	Calendar year in which the reported activities occurred. Source: TRI_REPORTING_FORM.REPORTING_YEAR Reference: Part I, Section 1 *Maximum Length*: 4
2	TRIFID	C	The unique TRI facility identification number assigned to each facility for TRI reporting purposes. *NOTE: The content of this field is not 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.* *Reference:* Part I, Section 4.1 *Maximum Length:* 15
3	FRS ID	C	Unique identification number assigned by EPA's Facility Registry Service (FRS) to the TRI facility. The FRS is a centrally managed EPA database that identifies facilities, sites, or places subject to environmental regulations or of environmental interest. Using the FRS ID, data users can link data from different EPA programs together. *Maximum Length:* 12
4	FACILITY NAME	C	Name of the reporting facility. *Reference:* Part I, Section 4.1 *Maximum Length:* 62
5	STREET ADDRESS	C	Street address of the reporting facility. *Reference:* Part I, Section 4.1 *Maximum Length:* 62
6	CITY	C	City in which the reporting facility is located. *Reference*: Part I, Section 4.1 *Maximum Length:* 28
7	COUNTY	C	County in which the reporting facility is located. *Reference*: Part I, Section 4.1 *Maximum Length:* 50
8	STATE	C	Two-letter state code of the reporting facility. *Reference:* Part I, Section 4.1 *Maximum Length*: 2
9	ZIP	C	ZIP code of the reporting facility. *Reference:* Part I, Section 4.1 *Maximum Length:* 9
10	BIA	C	Three-letter Bureau of Indian Affairs (BIA) code indicating the tribe on whose land the reporting facility is located. *Maximum Length:* 3

11	TRIBE	C	Name of the tribe on whose land the reporting facility is located. *Maximum Length:* 350
12	LATITUDE	N	The latitude value that best represents the facility according to EPA's Facility Registry System (FRS). Format: 2-digit whole number followed by a decimal point and 6 digits. *Note: In RY 2005, EPA stopped collecting the latitude value and began obtaining it from FRS.* *Maximum Length:* 9,6
13	LONGITUDE	N	The longitude value that best represents the facility according to EPA's Facility Registry System (FRS). Format: 3-digit whole number followed by 6 digits. *Note: In RY 2005, EPA stopped collecting the longitude value and began obtaining it from FRS.* *Maximum Length:* 10,6
14	HORIZONTAL DATUM	C	The horizontal datum used in determining the latitude and longitude coordinates. Allowed values: NAD27, NAD83 and WGS84. *Maximum Length:* 5
15	PARENT CO NAME	C	Name of the corporation or other business entity that controls the reporting facility. *Reference:* Part I, Section 5.1 *Maximum Length:* 60
16	PARENT CO DB NUM	C	Unique identification number assigned by Dun and Bradstreet to the parent company of the reporting facility. *Reference:* Part I, Section 5.2 *Maximum Length:* 9
17	STANDARDIZED PARENT COMPANY NAME	C	A data field developed by EPA that is intended to best reflect the current ultimate U.S. parent company of the facility. *Reference:* Assigned by EPA
18	FOREIGN PARENT CO NAME	C	Name of the foreign corporation that owns the facility if there is a higher-level parent company outside of the United States. *Reference:* Part I, Section 5.3
19	FOREIGN PARENT CO D&B NUM	C	Unique identification number assigned by Dun and Bradstreet to the foreign parent company of the reporting facility, if one exists. *Reference:* Part I, Section 5.4
20	STND FOREIGN PARENT CO	C	A data field developed by EPA that is intended to best reflect the current foreign parent company of the facility. *Reference:* Assigned by EPA

21	FEDERAL FACILITY IND	C	Flag indicating whether the facility is federally owned and operated. Yes = federal; no = non-federal *Reference:* Part I Section 4.2c *Maximum Length:* 3
22	INDUSTRY SECTOR CODE	C	North American Industry Classification System (NAICS) code used to identify the facility's sector. This categorization is primarily used to classify, analyze, and show industrial trends within TRI data. *Maximum Length:* 4
23	INDUSTRY SECTOR	C	The industry or sector (e.g., Coal Mining, Metal Mining, Electrical Utilities, etc.) a facility belongs to. This categorization is primarily used to classify, analyze, and show industrial trends within TRI data. *Maximum Length:* 120
24	PRIMARY SIC	C	Primary 4-digit Standard Industrial Classification (SIC) code. *Note: SIC codes were reported by facilities from RY 1987 through 2005.* *Reference:* Part I, Section 4.5a *Maximum Length:* 4
25	SIC 2	C	Second 4-digit Standard Industrial Classification (SIC) code entered by facility. *Note: SIC codes were reported by facilities from RY 1987 through 2005.* *Reference:* Part I, Section 4.5b *Maximum Length:* 4
26	SIC 3	C	Third four-digit Standard Industrial Classification (SIC) code entered by facility. *Note: SIC codes were reported by facilities from RY 1987 through 2005.* *Reference:* Part I, Section 4.5c *Maximum Length:* 4
27	SIC 4	C	Fourth four-digit Standard Industrial Classification (SIC) code entered by facility. *Note: SIC codes were reported by facilities from RY 1987 through 2005.* *Reference:* Part I, Section 4.5d *Maximum Length:* 4
28	SIC 5	C	Fifth four-digit Standard Industrial Classification (SIC) code entered by facility. *Note: SIC codes were reported by facilities from RY 1987 through 2005*. *Reference:* Part I, Section 4.5d *Maximum Length:* 4

29	SIC 6	C	Six four-digit Standard Industrial Classification (SIC) code entered by facility. *Note: SIC codes were reported by facilities from RY 1987 through 2005.* *Reference:* Part I, Section 4.5d *Maximum Length:* 4
30	PRIMARY NAICS	C	Primary 6-digit North American Standard Industry Classification System (NAICS) code. This represents the main business activity at the facility. *Note: From RY 2006 to the present, NAICS codes reported by facilities from RY 2006 to present. Prior to RY 2006, NAICS codes were assigned by EPA.* *Reference:* Part I, Section 4.5a *Maximum Length:* 6
31	NAICS 2	C	Second 6-digit North American Standard Industry Classification System (NAICS) code entered by facility. *Note: NAICS codes reported by facilities from RY 2006 to present. Prior to RY 2006, NAICS codes were assigned by EPA.* *Reference:* Part I, Section 4.5b *Maximum Length:* 6
32	NAICS 3	C	Third 6-digit North American Standard Industry Classification System (NAICS) code entered by facility. *Note: NAICS codes reported by facilities from RY 2006 to present. Prior to RY 2006, NAICS codes were assigned by EPA.* *Reference:* Part I, Section 4.5b *Maximum Length:* 6
33	NAICS 4	C	Fourth 6-digit North American Standard Industry Classification System (NAICS) code entered by facility. *Note: NAICS codes reported by facilities from RY 2006 to present. Prior to RY 2006, NAICS codes were assigned by EPA.* *Reference:* Part I, Section 4.5b *Maximum Length:* 6
34	NAICS 5	C	Fifth 6-digit North American Standard Industry Classification System (NAICS) code entered by facility. *Note: NAICS codes reported by facilities from RY 2006 to present. Prior to RY 2006, NAICS codes were assigned by EPA.* *Reference:* Part I, Section 4.5b *Maximum Length:* 6

35	NAICS 6	C	Sixth 6-digit North American Standard Industry Classification System (NAICS) code entered by facility. *Note: NAICS codes reported by facilities from RY 2006 to present. Prior to RY 2006, NAICS codes were assigned by EPA.* *Reference:* Part I, Section 4.5b *Maximum Length:* 6
36	DOC_CTRL_NUM	C	Unique identification number assigned to each TRI form submission. Format: TTYYNNNNNNNNN, where: TT = document type; YY = reporting year; NNNNNNNNN= assigned number *Reference:* NA (System-generated) *Maximum Length:* 13
37	CHEMICAL		Name of the chemical as listed on the TRI chemical list, or generic name, if the chemical is claimed as a trade secret. *Reference:* Part II, Section 1.2 or Part II, Section1.3 *Maximum Length:* 70
38	ELEMENTAL METAL INCLUDED IND	N	Flag indicating whether the facility submitted a combined reporting form for a metal compound and the corresponding elemental metal. TRI started collecting this data element beginning with RY 2018. VALUES: YES = combined form for both an elemental metal and a metal compound containing the same elemental metal. NO = only metal compound reported *Reference:* Part II, Section 1.2 *Maximum Length:* 3
39	TRI CHEMICAL /COMPOUND ID	C	TRI Chemical ID is an internal program number that uniquely identifies chemical or category codes (for compounds). The number is the same as the CAS number but with a different format (no dashes and left padded with zeroes for non-compounds). Format: 9999999999(Chemicals), N999 (Compounds). *Note: I_CHEM_ID 9999999999 is sanitized for trade secret submissions.* *Reference:* Part II, Section 1.1 *Maximum Length:* 10
40	CAS NUMBER	C	Unique numerical identifier assigned by the Chemical Abstracts Service to every chemical substance. *Note: CAS number 9999999999 is for sanitized trade secret submissions.* *Reference:* NA *Maximum Length:* 12

41	SRS ID	C	The Substance Registry System (SRS) identification number. This is a unique identifier assigned to a substance for internal tracking within EPA systems. See https://cdxapps.epa.gov/oms-substance-registry-services/search for more information. *Reference:* NA *Maximum Length:* 9
42	CLEAN AIR ACT CHEMICAL	C	Flag indicating whether the chemical is listed as a hazardous air pollutant under the Clean Air Act (CAA). Yes = CAAC; No = Non-CAAC *Maximum Length:* 3
43	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 chemical PBT = Persistent Bioaccumulative and Toxic chemical DIOXIN = Dioxin or dioxin-like compound *Reference:* NONE *Maximum Length:* 6
44	METAL	C	Flag indicating whether the chemical is a metal with TRI reporting restrictions. Yes = Metal with reporting restrictions No = TRI chemical without reporting restrictions *Maximum Length:* 3
45	METAL CATEGORY	C	Category of metal. Values are either 1, 2, 3, or 4. See "Appendix A: Chemical Classifications: Metals" for a list of metals in each of the four categories. *Reference:* NA *Maximum Length:* 1
46	CARCINOGEN	C	Flag indicating whether the chemical is classified as a carcinogen by the Occupational Safety and Health Administration (OSHA). Yes = CARC No = Non-CARC See "Appendix B: Chemical Classifications – Carcinogens" for a list of TRI chemicals classified as OSHA carcinogens. *Maximum* Length: 3

47	PBT	C	Flag indicating a chemical as a persistent, bioaccumulative, toxic (PBT) chemical. Values: Yes = Chemical is a PBT; No = Chemical is not a PBT *Reference:* NA *Maximum Length:* 3
48	PFAS	C	Flag identifying a chemical as a per- and polyfluoroalkyl substance (PFAS). PFAS chemicals were added to TRI in reporting year 2020. VALUES: YES = Chemical is a PFAS; NO = Chemical NOT a PFAS *Reference*: NA *Maximum Length:* 3
49	FORM TYPE	C	Indicates whether the facility submitted a Reporting Form R or Form A Certification Statement. R = Form R A = Form A Certification Statement *Reference:* Type of Form Used *Maximum Length:* 1
50	UNIT OF MEASURE	C	Indicates the unit of measure used to quantify the chemical. Dioxin and dioxin-like compounds are reported in grams, while all other TRI chemicals are reported in pounds. Values: {Pounds, Grams} *Reference:* NA *Maximum Length:* 6
51	5.1 – FUGITIVE AIR	N	An estimate of the total quantity of the toxic chemical released as fugitive air emissions at the reporting facility. *Source:* TRI_RELEASE_QTY.TOTAL_RELEASE *Where:* ENVIRONMENTAL_MEDIUM = 'AIR FUG' *Reference:* Part II, Section 5.1.A *Maximum Length:* 22,7
52	5.2 – STACK AIR	N	An estimate of the total quantity of the chemical released as stack (point source) air emissions at the reporting facility. *Reference:* Part II, Section 5.2.A *Maximum Length:* 22,7
53	5.3 – WATER	N	An estimate of the total quantity of the chemical released on site as surface water discharges. *Reference:* Part II, Section 5.3 *Maximum Length:* 22,7

54	5.4 – UNDERGROUND	N	An estimate of the total quantity of the chemical injected on site at the facility into underground injection wells. *Note: This data element was reported from RY 1987 through 1995. In RY 1996, it was replaced by "UNDERGROUND CLASS I" and "UNDERGROUND CLASS II-V."* *Reference:* Part II, Section 5.4.1 *Maximum Length:* 22,7
55	5.4.1 – UNDERGROUND CLASS I	N	An estimate of the total quantity of the chemical injected on site at the facility into Class I wells. *Reference:* Part II, Section 5.4.1A *Maximum Length:* 22,7
56	5.4.2 – UNDERGROUND CLASS II-V	N	An estimate of the total quantity of the chemical injected on site at the facility into Class II-V wells. *Reference*: Part II, Section 5.4.2.A *Maximum Length:* 22,7
57	5.5.1 – LANDFILLS	N	An estimate of the total quantity of the chemical released to landfills at the facility. *Note: This data element was reported from RY 1987 through 1995. In RY 1996, it was replaced by "ON-SITE RCRA SUBTITLE C LANDFILLS" and "OTHER LANDFILLS."* *Reference:* Part II, Section 5.5.1 *Maximum Length:* 22,7
58	5.5.1A – RCRA C LANDFILLS	N	An estimate of the total quantity of the chemical released to RCRA Subtitle C landfills at the facility. *Reference:* Part II, Section 5.5.1A.A *Maximum Length:* 22,7
59	5.5.1B – OTHER LANDFILLS	N	An estimate of the total quantity of the chemical released to other on-site (non-RCRA Subtitle C) landfills. *Reference:* Part II, Section 5.5.1B.A *Maximum Length:* 22,7
60	5.5.2 – LAND TREATMENT	N	An estimate of the quantity of the chemical disposed of through land treatment/application farming at the facility. *Reference:* Part II, Section 5.5.2.A *Maximum Length:* 22,7
61	5.5.3 – SURFACE IMPOUNDMENT	N	An estimate of the total quantity of the chemical released into surface impoundments at the facility. *Note: this data element was reported from RY 1987 through 2002. In RY 2003, it was replaced by "RCRA C SURFACE IMPOUNDMENT" and "OTHER SURFACE IMPOUNDMENT."* *Reference:* Part II, Section 5.5.3. col. A *Maximum Length:* 22,7

62	5.5.3A – RCRA SURFACE IMPOUNDMENT	N	An estimate of the total quantity of the chemical released into RCRA Subtitle C surface impoundments at the facility. This field was added in RY 2003. *Reference:* Part II, Section 5.5.3A col. A *Maximum Length:* 22,7
63	5.5.3B – OTHER SURFACE IMPOUNDMENT	N	An estimate of the total quantity of the chemical released into other (non-RCRA Subtitle C) surface impoundments at the facility. This field was added in RY 2003. *Reference:* Part II, Section 5.5.3B col. A *Maximum Length:* 22,7
64	5.5.4 – OTHER DISPOSAL	N	An estimate of the total quantity of the chemical released to other disposal units (other than landfills, land treatment, and surface impoundments) at the facility. *Reference:* Part II, Section 5.5.4 col. A *Maximum Length:* 22,7
65	ON-SITE RELEASE TOTAL	N	Total quantity of the chemical released to the air, water, and land at the facility. This is the sum of rows #51 through #64. *Maximum Length:* 22,7
66	6.1 – POTW – TRANSFERS FOR RELEASE	N	The total quantity of the chemical reported as transferred off site to a POTW for release or disposal. See "Appendix E: POTW Release and Treatment Calculations" for details regarding this calculation. *Reference:* Part II, Section 6.1 *Maximum Length:* 22,7
67	6.1 – POTW – TRANSFERS FOR TREATMENT	N	The total quantity of the chemical reported as transferred off site to a POTW for further treatment. See "Appendix E: POTW Release and Treatment Calculations" for details regarding this calculation. *Reference:* Part II, Section 6.1 *Maximum Length:* 22,7
68	POTW – TOTAL TRANSFERS	N	This is the total amount of the chemical that was transferred to a POTW. Sum of rows #66 and #67. *Maximum Length:* 22,7
69	6.2 – M10	N	The total quantity of the chemical reported as transferred off site for disposal using code "M10: Storage Only." *Reference:* Part II, Section 6.2A *Maximum Length:* 22,7
70	6.2 – M41	N	The total quantity of a metal or metal compound reported as transferred off site for solidification/stabilization using disposal transfer code "M41: Solidification/Stabilization - Metals and Metal Category Compounds Only." *Reference:* Part II, Section 6.2A *Maximum Length:* 22,7

71	6.2 – M62	N	The total quantity of a metal or metal compound reported as transferred off site for wastewater treatment not at POTWs using disposal transfer code M62: "Wastewater Treatment (Excluding POTWs) – Metals and Metal Compounds Only." *Reference:* Part II, Section 6.2A *Maximum Length:* 22,7
72	6.2 – M40 METAL	N	Total quantity of the chemical reported as transferred off site for disposal using the code "M40: Solidification/Stabilization" when the chemical is a type 1 metal (Row #45, METAL CATEGORY = 1) or the chemical is Vanadium (Fume or Dust) or Vanadium (Except when contained in an alloy). *NOTE: When a metal is reported under M40 it's considered a release/disposal because a metal can't be treated.* *Reference:* Part II, Section 6.2A *Maximum Length:* 22,7
73	6.2 – M61 METAL	N	Total quantity of the chemical reported as transferred off site for disposal using the code "M61: Wastewater Treatment (Excluding POTWs)" when the chemical is a type 1 metal (Row #45: METAL CATEGORY = 1) or the chemical is Vanadium (Fume or Dust) or Vanadium (Except when contained in an alloy). *NOTE: When a metal is reported under M61 it's considered a release/disposal because a metal can't be treated.* *Reference:* Part II, Section 6.2A *Maximum Length:* 22,7
74	6.2 – M71	N	The total quantity of the chemical reported as transferred off site for disposal using the code "M71: Underground Injection." *Note: Effective for RY 2003, code M71 was deleted and replaced with codes M81 (Underground Injection to Class I Wells) and M82 (Underground Injection to Class II-V Wells).* *Reference:* Part II, Section 6.2A *Maximum Length:* 22,7
75	6.2 – M81	N	Total quantity of the chemical reported as transferred off site for disposal using code "M81: Underground Injection to Class I Wells." This field was added in RY 2003. *Reference:* Part II, Section 6.2A *Maximum Length:* 22,7
76	6.2 – M82	N	Total quantity of the chemical reported as transferred off site for disposal using code "M82: Underground Injection to Class IIV Wells." This field was added in RY 2003. *Reference:* Part II, Section 6.2A *Maximum Length:* 22,7

77	6.2 – M72	N	The total quantity of the chemical reported as transferred off site for disposal using the code "M72: Landfills/Disposal Surface Impoundments." *Note: Effective for RY 2002, code M72 was deleted and replaced with code M63 (Surface Impoundment), M64 (Other Landfills), and M65 (RCRA Subtitle C Landfills).* Reference: Part II, Section 6.2A Maximum Length: 22,7
78	6.2 – M63	N	The total quantity of the chemical reported as transferred off site for disposal using the code "M63: Surface Impoundment." *Note: Effective for RY 2003, code M63 was deleted and replaced with code M66 (RCRA Subtitle C Surface Impoundment) and code M67 (Other Surface Impoundments).* *Reference:* Part II, Section 6.2A *Maximum Length:* 22,7
79	6.2 – M66	N	Total quantity of the chemical reported as transferred off site for disposal using code "M66: RCRA Subtitle C Surface Impoundments." This field was added in RY 2003. *Reference:* Part II, Section 6.2A *Maximum Length:* 22,7
80	6.2 – M67	N	Total quantity of the chemical reported as transferred off site for disposal using code "M67: Other Surface Impoundments." This field was added in RY 2003. *Reference:* Part II, Section 6.2A *Maximum Length:* 22,7
81	6.2 – M64	N	Total quantity of the chemical reported as transferred off site for disposal using code "M64: Other Landfills." This field was added in RY 2002. *Reference:* Part II, Section 6.2A *Maximum Length:* 22,7
82	6.2 – M65	N	Total quantity of the chemical reported as transferred off site for disposal using code "M65: RCRA Subtitle C Landfills." This field was added in RY 2002. *Reference:* Part II, Section 6.2A *Maximum Length:* 22,7
83	6.2 – M73	N	Total quantity of the chemical reported as transferred off site for disposal using code "M73: Land Treatment." *Reference:* Part II, Section 6.2A *Maximum Length:* 22,7
84	6.2 – M79	N	Total quantity of the chemical reported as transferred off site for disposal using code "M79: Other Land Disposal." Reference: Part II, Section 6.2A

			Maximum Length: 22,7
85	6.2 – M90	N	Total quantity of the chemical reported as transferred off site for disposal using code “M90: Other Off-Site Management.” *Reference:* Part II, Section 6.2A *Maximum Length:* 22,7
86	6.2 – M94	N	Total quantity of the chemical reported as transferred off site for disposal using code “M94: Transfer to Waste Broker for Disposal.” *Reference:* Part II, Section 6.2A *Maximum Length:* 22,7
87	6.2 – M99	N	Total quantity of the chemical reported as transferred off site for disposal using code “M99: Unknown.” *Reference:* Part II, Section 6.2A *Maximum Length:* 22,7
88	OFF-SITE RELEASE TOTAL	N	Total quantity of the toxic chemical reported as transferred to off-site locations for release or disposal. Sum of rows #66 + (#69 through #87). *Reference:* Part II, Section 6.2 *Maximum Length:* 22,7
89	6.2 – M20	N	Total quantity of the chemical reported as transferred off site for recycling using the code “M20: Solvents/Organics Recovery.” *Reference:* Part II, Section 6.2A *Maximum Length:* 22,7
90	6.2 – M24	N	Total quantity of the chemical reported as transferred off site for recycling using the code “M24: Metals Recovery.” *Reference:* Part II, Section 6.2A *Maximum Length:* 22,7
91	6.2 – M26	N	Total quantity of the chemical reported as transferred off site for recycling using the code “M26: Other Reuse or Recovery.” *Reference:* Part II, Section 6.2A *Maximum Length:* 22,7
92	6.2 – M28	N	Total quantity of the chemical reported as transferred off site for recycling using the code “M28: Acid Regeneration.” *Reference:* Part II, Section 6.2A *Maximum Length:* 22,7
93	6.2 – M93	N	Total quantity of the chemical reported as transferred off site to recycling using the code “M93: Transfer to Waste Broker - Recycling.” *Reference:* Part II, Section 6.2A

			Maximum Length: 22,7
94	OFF-SITE RECYCLED TOTAL	N	Total quantity of the toxic chemical reported as transferred to off-site locations for recycling. Sum of rows #89 through #93. *Reference:* Part II, Section 6.2 *Maximum Length:* 22,7
95	6.2 – M56	N	Total quantity of the chemical reported as transferred off site to energy recovery using the code "M56: Energy Recovery." *Reference:* Part II, Section 6.2A *Maximum Length:* 22,7
96	6.2 – M92	N	Total quantity of the chemical reported as transferred off site to energy recovery using the code "M92: Transfer to Waste Broker - Energy Recovery." *Reference:* Part II, Section 6.2A *Maximum Length:* 22,7
97	OFF-SITE ENERGY RECOVERY TOTAL	N	Total quantity of the toxic chemical reported as transferred to off-site locations for energy recovery. Sum of rows #95 and #96. *Reference:* Part II, Section 6.2 *Maximum Length:* 22,7
98	6.2 – M40 NON-METAL	N	Total quantity of the non-metal chemical reported as transferred off site for treatment using the code "M40: Solidification/Stabilization." A chemical is considered a non-metal when it is NOT a type 1 metal (Row #45, METAL CATEGORY ≠ 1) and the chemical is NOT Vanadium (Fume or Dust) and NOT Vanadium (Except when contained in an alloy). *NOTE: When a non-metal is reported under M40, it's considered to be treated and is included in in the OFF-SITE TREATED TOTAL.* *Reference:* Part II, Section 6.2A *Maximum Length:* 22,7
99	6.2 – M50	N	Total quantity of the chemical reported as transferred off site for treatment using the code "M50: Incineration/Thermal Treatment." *Reference:* Part II, Section 6.2A *Maximum Length:* 22,7
100	6.2 – M54	N	Total quantity of the chemical reported as transferred off site for treatment using the code "M54: Incineration/Insignificant Fuel Value." *Reference:* Part II, Section 6.2A *Maximum Length:* 22,7

101	6.2 – M61 NON-METAL	N	Total quantity of the chemical reported as transferred off site to treatment using the code M61: "Wastewater Treatment (Excluding POTWs)." A chemical is considered a non-metal when it is NOT a type 1 metal (Row #45, METAL CATEGORY ≠ 1) and the chemical is NOT Vanadium (Fume or Dust) and NOT Vanadium (Except when contained in an alloy). *NOTE: When a non-metal is reported under M61, it's considered to be treated and is included in in the OFF-SITE TREATED TOTAL.* *Reference:* Part II, Section 6.2A *Maximum Length:* 22,7
102	6.2 – M69	N	Total quantity of the chemical reported as transferred off site for treatment using the code "M69: Other Waste Treatment." *Reference:* Part II, Section 6.2A *Maximum Length:* 22,7
103	6.2 – M95	N	Total quantity of the chemical reported as transferred off site for treatment using the code "M95: Transfer to Waste Broker - Waste Treatment." *Reference:* Part II, Section 6.2A *Maximum Length:* 22,7
104	OFF-SITE TREATED TOTAL	N	Total quantity of the chemical reported as transferred off site for treatment. The sum of rows #67 + (#98 through #103). *Maximum Length:* 22,7
105	6.2 – UNCLASSIFIED	N	Total quantity of the chemical reported as transfer off-site as unclassified. This includes chemicals reported using code "M91: Transfers to Waste Broker" and other transfers that did not contain a specific transfer code. *Maximum Length:* 22,7
106	6.2 – TOTAL TRANSFER	N	Total quantity of the chemical reported as transferred off site. Sum of rows #88, #94, #97 and #104. *Maximum Length:* 22,7
107	TOTAL RELEASES	N	The total on- and off-site releases from sections 5 and 6 of the Form R. The value for this field equals On-site Release Total (row #65) + Off-site Release Total (row #88). *Maximum Length:* 22,7
108	8.1 - RELEASES	N	Amount of total on- and off-site releases as reported in Section 8, Source Reduction and Recycling Activities / Pollution Prevention. *Note: Reported from RY 1987 through 2002.* *Maximum Length:* 22,7

109	8.1A – ON-SITE CONTAINED RELEASES	N	Total quantity of on-site disposal to Class I underground injection wells, RCRA Subtitle C landfills and other landfills. *Note: Beginning in RY 2003, the total releases in Section 8 of the Form R were broken up into four subcategories (rows #109-#112).* *Reference:* Part II, Section 8.1A *Maximum Length:* 22,7
110	8.1B – ON-SITE OTHER RELEASES	N	Other on-site disposal or release amounts not covered in section 8.1A of the reporting form. *Note: Beginning in RY 2003, the total releases in Section 8 of the Form R were broken up into four subcategories (rows #109-#112). Reference:* Part II, Section 8.1B *Maximum Length:* 22,7
111	8.1C – OFF-SITE CONTAINED RELEASES	N	Total quantity of off-site disposal to Class I underground injection wells, RCRA Subtitle C landfills and other landfills. *Note: Beginning in RY 2003, the total releases in Section 8 of the Form R were broken up into four subcategories (rows #109-#112).* *Reference:* Part II, Section 8.1C *Maximum Length:* 22,7
112	8.1D – OFF-SITE OTHER RELEASES	N	Other off-site disposal or release amounts not covered in Section 8.1 of the reporting form. *Note: Beginning in RY 2003, the total releases in Section 8 of the Form R were broken up into four subcategories (rows #109-#112). Reference:* Part II, Section 8.1D *Maximum Length:* 22,7
113	8.2 – ENERGY RECOVERY ON SITE	N	The total quantity of the toxic chemical burned on site for energy recovery. *Reference:* Part II, Section 8.2 *Maximum Length:* 22,7
114	8.3 – ENERGY RECOVERY OFF SITE	N	The total quantity of the toxic chemical sent off site to be burned for energy recovery. *Reference:* Part II, Section 8.3 *Maximum Length:* 22,7
115	8.4 – RECYCLING ON SITE	N	The total quantity of the toxic chemical recycled on site at the facility. *Reference:* Part II, Section 8.4 Maximum Length: 22,7
116	8.5 – RECYCLING OFF SITE	N	The total quantity of the toxic chemical sent off site for recycling. *Reference:* Part II, Section 8.5 *Maximum Length:* 22,7

117	8.6 – TREATMENT ON SITE	N	The total quantity of the toxic chemical treated on site at the facility. *Reference:* Part II, Section 8.6 *Maximum Length:* 22,7
118	8.7 – TREATMENT OFF SITE	N	The total quantity of the toxic chemical sent off site for treatment (including transfers to POTWs). *Reference:* Part II, Section 8.7 *Maximum Length:* 22,7
119	PRODUCTION WASTE (8.1 – 8.7)	N	The total quantity of production-related waste containing the chemical. This is the sum of the quantities in Section 8.1 through 8.7 of the Form R (rows #109 through #118). *Maximum Length:* 22,7
120	8.8 – ONE-TIME RELEASE	N	The total quantity of the chemical released into the environment or transferred off site due to events not associated with routine production processes. *Reference:* Part II, Section 8.8 *Maximum Length:* 22,7
121	PROD_RATIO_OR_ ACTIVITY	C	Indicates whether the value reported in Section 8.9 (see row #122) is a production ratio value or an activity index value. *Reference:* Part II, Section 8.9 *Maximum Length:* 10
122	8.9 – PRODUCTION RATIO	N	The ratio of production or activity in the reporting year divided by production or activity in the previous year. Activity index is based on a variable other than production that is the primary influence on the quantity of the reported TRI chemical. *Reference:* Part II, Section 8.9 *Maximum Length:* 9,2

APPENDIX A – Chemical Classification - Metals

Category 1 Metals (Metal_Ind = '1')

Chemical	CAS#	TRI Chemical ID
ANTIMONY	7440-36-0	007440360
ANTIMONY COMPOUNDS	N010	N010
ARSENIC	7440-38-2	007440382
ARSENIC COMPOUNDS	N020	N020
BERYLLIUM	7440-41-7	007440417
BERYLLIUM COMPOUNDS	N050	N050
CADMIUM	7440-43-9	007440439
CADMIUM COMPOUNDS	N078	N078
CHROMIUM	7440-47-3	007440473
CHROMIUM COMPOUNDS (EXCEPT CHROMITE ORE MINED IN THE TRANSVAAL REGION)	N090	N090
COBALT	7440-48-4	007440484
COBALT COMPOUNDS	N096	N096
COPPER	7440-50-8	007440508
COPPER COMPOUNDS	N100	N100
LEAD	7439-92-1	007439921
LEAD COMPOUNDS	N420	N420
MANGANESE	7439-96-5	007439965
MANGANESE COMPOUNDS	N450	N450
MERCURY	7439-97-6	007439976
MERCURY COMPOUNDS	N458	N458
NICKEL	7440-02-0	007440020
NICKEL COMPOUNDS	N495	N495
SELENIUM	7782-49-2	007782492
SELENIUM COMPOUNDS	N725	N725
SILVER	7440-22-4	007440224
SILVER COMPOUNDS	N740	N740
THALLIUM	7440-28-0	007440280
THALLIUM COMPOUNDS	N760	N760
VANADIUM COMPOUNDS	N770	N770
ZINC COMPOUNDS	N982	N982

APPENDIX A – Chemical Classification - Metals (cont.)

Category 2 Metals (Metal_Ind = '2')

Chemical	CAS#	TRI Chemical ID
ALUMINUM OXIDE (FIBROUS FORMS)	1344-28-1	001344281
ALUMINUM PHOSPHIDE	20859-73-8	020859738
ASBESTOS (FRIABLE)	1332-21-4	001332214
BIS(TRIBUTYLTIN) OXIDE	56-35-9	000056359
BORON TRICHLORIDE	10294-34-5	010294345
BORON TRIFLUORIDE	7637-07-2	007637072
C.I. DIRECT BLUE 218	28407-37-6	028407376
C.I. DIRECT BROWN 95	16071-86-6	016071866
FENBUTATIN OXIDE	13356-08-6	013356086
FERBAM	14484-64-1	014484641
IRON PENTACARBONYL	13463-40-6	013463406
LITHIUM CARBONATE	554-13-2	000554132
MANEB	12427-38-2	012427382
METIRAM	9006-42-2	009006422
MOLYBDENUM TRIOXIDE	1313-27-5	001313275
OSMIUM TETROXIDE	20816-12-0	020816120
POTASSIUM BROMATE	7758-01-2	007758012
SODIUM NITRITE	7632-00-0	007632000
THORIUM DIOXIDE	1314-20-1	001314201
TITANIUM TETRACHLORIDE	7550-45-0	007550450
TRIBUTYLTIN FLUORIDE	1983-10-4	001983104
TRIBUTYLTIN METHACRYLATE	2155-70-6	002155706
TRIPHENYLTIN CHLORIDE	639-58-7	000639587
TRIPHENYLTIN HYDROXIDE	76-87-9	000076879
ZINEB	12122-67-7	012122677

Category 3 Metals (Metal_Ind = '3')

Chemical	CAS#	TRI Chemical ID
BARIUM	7440-39-3	007440393
BARIUM COMPOUNDS	N040	N040

Category 4 Metals (Metal_Ind = '4')

Chemical	CAS#	TRI Chemical ID
ALUMINUM (FUME OR DUST)	7429-90-5	007429905
VANADIUM (EXCEPT WHEN CONTAINED IN AN ALLOY)	7440-62-2	007440622
ZINC (FUME OR DUST)	7440-66-6	007440666

APPENDIX B - Persistent Bio-accumulative Toxics (PBTs)

Chemical Name	CAS Number
ALDRIN	309-00-2
BENZO(G H I)PERYLENE	191-24-2
CHLORDANE	57-74-9
DIOXIN AND DIOXIN-LIKE COMPOUNDS	N150
HEPTACHLOR	76-44-8
HEXABROMOCYCLODODECANE	N270
HEXACHLOROBENZENE	118-74-1
ISODRIN	465-73-6
LEAD	7439-92-1
LEAD COMPOUNDS	N420
MERCURY	7439-97-6
MERCURY COMPOUNDS	N458
METHOXYCHLOR	72-43-5
OCTACHLOROSTYRENE	29082-74-4
PENDIMETHALIN	40487-42-1
PENTACHLOROBENZENE	608-93-5
POLYCHLORINATED BIPHENYLS	1336-36-3
POLYCYCLIC AROMATIC COMPOUNDS	N590
TETRABROMOBISPHENOL A	79-94-7
TOXAPHENE	8001-35-2
TRIFLURALIN	1582-09-8

APPENDIX C - Dioxin and Dioxin-like Compound Data

In reporting year (RY) 2000, the Toxics Release Inventory Program began collecting congener data for dioxin and dioxin-like compounds to better convey the relative toxicity of these chemicals being released or managed at facilities. From RY 2000 through 2007, Part II, Section 1.4 of the Reporting Form R asked facilities to specify the percentages of the 17 individual chemicals that make up a dioxin or dioxin-like compound for all media (air, water and land).

In RY 2008, the TRI Program improved collection of dioxin and dioxin-like compounds data by introducing the Form R Schedule One. This supplemental form allows facilities to report quantities of each of the 17 dioxin congeners.

Although useful, total releases are not the best measure of the actual toxicity of dioxin and dioxin-like compounds because each compound has its own level of toxicity. Both the original reporting of dioxin and dioxin-like congeners and the Form R Schedule One reporting allowed the TRI Program to calculate Toxic Equivalency (TEQ) values for each facility's dioxin releases. TEQs are a weighted quantity measure based on the toxicity of each member of the dioxin and dioxin-like compounds category relative to the most toxic members of the category. The values allow for comparison of the toxicity of different combinations of dioxins and dioxin-like compounds, and help explain the relative toxicity of the TRI chemical release information.

For more information about dioxin and dioxin-like chemical reporting and the calculation of TEQs, see https://www.epa.gov/toxics-release-inventory-tri-program/dioxin-and-dioxin-compounds-toxic-equivalencyinformation. To download dioxin data from the Form R Schedule One, visit https://www.epa.gov/toxicsrelease-inventory-tri-program/tri-dioxin-and-dioxin-compounds-and-teq-data-files-calendar.

APPENDIX D – NAICS Code Assignments

Until RY 2006, the TRI Program used Standard Industrial Codes (SIC) to identify each reporting facility's industry sector. In RY 2006, the TRI Program began using North American Industry Classification System (NAICS) codes.

To allow for analysis of data across years, the TRI Program assigned NAICS codes to each TRI submission from 1987 through 2005. The six methods used to assign NAICS codes and the number and percentages of assignments per method are shown in the table below. The "Order of Precedence" column indicates the order in which the methods were used to make an assignment.

Method	Order of Precedence	Number of NAICS codes Assigned via Method (in Thousands)	Percentage Per Method
Reported Data Used	1	821K	50%
SIC to NAICS Crosswalk	2	478K	29%
EPA Facility Registry System (FRS)	3	190K	11%
Commercial Sources	4	113K	7%
Statistics	5	51K	3%
Other Methods	6	2K	Less than 1 %

Reported Data Used – In this method, the primary NAICS code reported by each facility in RY 2006 was used to make an assignment to chemical submissions (Form Rs and Form As) for years 1987 to 2005. This method was only used under the following conditions:

1. The RY 2006 chemical submitted had only one primary NAICS code reported
2. The prior year submission(s) for the same chemical had only one primary SIC code consistently reported
3. The SIC to NAICS Crosswalk (obtained for the U.S. Census Bureau) showed a one-to-one match between the reported SIC and NAICS codes

This method was used to assign 50% of all NAICS codes.

SIC to NAICS Crosswalk – In this method, the TRI Program used a crosswalk or lookup table that translated SIC codes into NAICS codes to assign a primary NAICS code to a pre-2006 TRI chemical submission. The primary SIC code reported on the TRI form was used to lookup the corresponding NAICS code. Not all SIC codes translated into only one NAICS code, so it was not possible to use this method to assign a NAICS code to each chemical submission. However, it was used to make 29% of all the assignments.

EPA Facility Registry System (FRS) – In this method, the TRI Program used NAICS codes found in EPA's Facility Registry System (FRS) to assign a primary NAICS code to each TRI chemical submission. This method was only

used if FRS listed only one primary NAICS code for a facility. 11% of all assignments were made using this method.

Commercial Sources - This method involved using various commercial services to verify NAICS code assignments. 7% of all assignments were made using this method.

Statistics – For 3% of NAICS code assignments, the TRI Program used various statistical methods based on past and present data.

Other Methods – Manual research (e.g., using Internet searches and other government agencies' data) and personally contacting facilities helped the TRI Program assign NAICS codes to approximately 2,000 TRI submissions.

APPENDIX E – POTW Release and Treatment Calculations

The calculation of POTW Releases and POTW Treatment is divided into two categories, those prior to and including reporting year (RY) 2013 and those in RY 2014 and after.

For RY 2013 and before, to calculate the amount released at a POTW (POTW Release), simply multiply the total POTW transfer reported in section 6.1 of the Form R by 1.00 for all chemicals that are metals. See "Appendix B – Chemical Classification – Metals" for a list of chemicals that are metals. Prior to and including RY 2013, all POTW transfers for chemicals that were metals are considered 100% released. To calculate the POTW Treatment, subtract the POTW Release from the total POTW transfer.

In RY 2014, the Toxics Release Inventory (TRI) program required all facilities to submit their data to EPA electronically (except for trade secret submissions) using the TRI-MEweb software. Along with this change, the TRI program also changed the way it calculated POTW Releases and POTW Treatment as well as Off-site Releases in Section 8.1c and 8.1d of the Form R and off-site treatment of a chemical in section 8.7.

The TRI-MEweb software allows facilities to specify three percentages regarding how their POTW transfers are managed. They correspond to the "Source Reduction and Recycling Activities" in Section 8 of the Form R and are as follows:

Item	Description	Form R Section
A	Percentage released to Underground Injection Class I Wells, RCRA C Landfills and/or Other Landfills.	8.1c
B	Percentage released to other media not specified in item A.	8.1d
C	Percentage not released, but treated in some manner.	8.7

If a facility does provide these percentages, then the POTW Release amount is calculated by multiplying the amount of the transfer by the percentages provided in items A and B (above) and adding those two numbers together. Then, to calculate the POTW Treatment amount, subtract the POTW Release from the total POTW transfer.

For example, if a facility reported a POTW transfer of 100 pounds and provided the following percentages below, the POTW Release would be 90 lbs and the POTW Treatment amount would be 10 pounds.

A	Percentage released to Underground Injection Class I Wells, RCRA C Landfills and/or Other Landfills.	60%
B	Percentage released to other media not specific in item A.	30%
C	Percentage not released, but treated in some manner.	10%

If the facility does not provide the percentages, then the POTW Release amount will be back calculated using the default percentages for each chemical (provided by EPA's office of Water) and other data on the form R. See the "Default Chemical Percentages" below.

The first step in this procedure is to calculate the Section 8.1c, 8.1d and 8.7 amounts on the Form R. These are done automatically via the TRI-MEweb software. The procedure is as follows:

Section 8.1c: Total Off-site Disposal to Class I Underground Injection Wells, RCRA Subtitle C Landfills, and Other Landfills is calculated as follows:

- Section 6.1 (portion of transfer that is not treated for destruction and is ultimately disposed of in landfills or UIC Class I Wells – This is item A in the table above calculated by multiplying the transfer amount by the default percentage for the chemical for 8.1C) + Section 6.2 (quantities associated with M codes M64, M65 and M81) - Section 8.8 (catastrophic, remedial or one-time releases to off-site disposal to landfills or UIC Class I Wells)

Section 8.1d: Total Other Off-site Disposal or Other Releases

- Section 6.1 (portion of transfer that is not treated for destruction and is ultimately disposed of or otherwise released, other than disposal to landfills or UIC Class I Wells – This is item B in the table above calculated by multiplying the default percentages for the chemical for 8.1D) + Section 6.2 (quantities associated with M codes M10, M41, M62, M66, M67, M73, M79, M82, M90, M94, and M99) - Section 8.8 (catastrophic, remedial or one time releases for off-site disposal or other releases, other than disposal to landfills or UIC Class I Wells)

Section 8.7: Quantity Treated Off-site

- Section 6.1 (portion of transfer that is ultimately treated – This is item C as referred to in the table above calculated by multiplying the default percentages for the chemical for 8.7) + Section 6.2 (treatment) - Section 8.8 (off-site treatment)

The next step is to check that following equation is true. The equation will be true if there are no data quality errors within the form and no rounding of data was undertaken in Section 8. The equation is:

8.7 + 8.1c + 8.1d = 6.1 + 6.2 (release M-codes) + 6.2 (treatment M-codes).

- Release M-codes are M10, M40, M41, M61, M62, M71, M81, M82, M72, M63, M66, M67, M64, M65, M73, M79, M90, M91, M94, M99
- Treatment M-codes are M40, M50, M54, M61, M69, and M95.

If the two values on either side of the equation are equal, POTW Release = 8.1c + 8.1d - 6.2 (release M-codes). Then, to calculate the POTW Treatment amount, subtract the POTW Release from the total POTW transfer.

If the two values on either side of the equation are NOT equal, percentages cannot be back-calculated. The POTW Release is equal to the sum of the POTW transfer multiplied by the default release percentages of the chemical for 8.1C and 8.1D. Then, to calculate the POTW Treatment amount, subtract the POTW Release from the total POTW transfer.

Default Chemical Percentages

8.1C - Releases/disposal to Landfills or UIC Class I Wells
8.1D - All other releases/disposal not classified in 8.1C
8.7 – Treatment

CAS#/Chemical Category	Chemical	Default % to 8.1C	Default % to 8.1D	Default % to 8.7
0004080313	1-(3-Chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride	1	55	44
0000354110	1,1,1,2-Tetrachloro-2-fluoroethane (HCFC-121a)	3	84	13
0000630206	1,1,1,2-Tetrachloroethane	3	82	15
0000071556	1,1,1-Trichloroethane	1	95	4
0000354143	1,1,2,2-Tetrachloro-1-fluoroethane (HCFC-121)	3	84	13
0000079345	1,1,2,2-Tetrachloroethane	2	78	20
0027905459	1,1,2,2-Tetrahydroperfluorodecyl acrylate	0	100	0
0017741605	1,1,2,2-Tetrahydroperfluorododecyl acrylate	0	100	0
0034362497	1,1,2,2-Tetrahydroperfluorohexadecyl acrylate	0	100	0
0034395249	1,1,2,2-Tetrahydroperfluorotetradecyl acrylate	0	100	0
0000079005	1,1,2-Trichloroethane	1	82	17
0013474889	1,1-Dichloro-1,2,2,3,3-pentafluoropropane (HCFC-225cc)	0	0	100
0000812044	1,1-Dichloro-1,2,2-trifluoroethane (HCFC-123b)	0	0	100
0111512562	1,1-Dichloro-1,2,3,3,3-pentafluoropropane (HCFC-225eb)	0	0	100
0001717006	1,1-Dichloro-1-fluoroethane (HCFC-141b)	1	96	3
0000057147	1,1-Dimethylhydrazine	1	25	74
0000096184	1,2,3-Trichloropropane	2	56	42
0000120821	1,2,4-Trichlorobenzene	19	22	59
0000095636	1,2,4-Trimethylbenzene	11	21	68
0000106887	1,2-Butylene oxide	0	27	73
0000096128	1,2-Dibromo-3-chloropropane	4	72	24
0000106934	1,2-Dibromoethane	1	60	39
0000422446	1,2-Dichloro-1,1,2,3,3-pentafluoropropane (HCFC-225bb)	0	0	100
0000354234	1,2-Dichloro-1,1,2-trifluoroethane (HCFC-123a)	1	98	1
0000431867	1,2-Dichloro-1,1,3,3,3-pentafluoropropane (HCFC-225da)	0	0	100
0001649087	1,2-Dichloro-1,1-difluoroethane (HCFC-132b)	1	97	2
0000095501	1,2-Dichlorobenzene	7	47	46
0000107062	1,2-Dichloroethane	1	64	35
0000540590	1,2-Dichloroethylene	1	74	25
0000078875	1,2-Dichloropropane	1	70	29
0000122667	1,2-Diphenylhydrazine	4	46	50
0000095545	1,2-Phenylenediamine	1	55	44
0000615281	1,2-Phenylenediamine dihydrochloride	0	0	100
0000106990	1,3-Butadiene	1	86	13
0000507551	1,3-Dichloro-1,1,2,2,3-pentafluoropropane (HCFC-225cb)	3	96	1
0136013791	1,3-Dichloro-1,1,2,3,3-pentafluoropropane (HCFC-225ea)	0	0	100
0000541731	1,3-Dichlorobenzene	8	47	45
0000542756	1,3-Dichloropropylene	1	44	55
0000108452	1,3-Phenylenediamine	1	55	44
0001120714	1,3-Propane sultone	1	29	70
0148240895	1,3-Propanediol, 2,2-bis[[(γ-ω-perfluoro-C10-20-alkyl)thio]methyl] derivs., phosphates, ammonium salts	0	100	0

CAS#/Chemical Category	Chemical	Default % to 8.1C	Default % to 8.1D	Default % to 8.7
0148240851	1,3-Propanediol, 2,2-bis[[(γ-ω-perfluoro-C4-10-alkyl)thio]methyl] derivs., phosphates, ammonium salts	0	100	0
0148240873	1,3-Propanediol, 2,2-bis[[(γ-ω-perfluoro-C6-12-alkyl)thio]methyl] derivs., phosphates, ammonium salts	0	100	0
1078142105	1,3-Propanediol, 2,2-bis[[(γ-ω-perfluoro-C6-12-alkyl)thio]methyl] derivs., polymers with 2,2-bis[[(γ-ω-perfluoro-C10-20-alkyl)thio]methyl]-1,3-propanediol, 1,6-diisocyanato-2,2,4(or 2,4,4)-trimethylhexane, 2-heptyl-3,4-bis(9-isocyanatononyl)-1-pentylcyclohexane and 2,2'-(methylimino)bis[ethanol]	0	100	0
0068515628	1,4-Benzenedicarboxylic acid, dimethyl ester, reaction products with bis(2-hydroxyethyl)terephthalate, ethylene glycol, α-fluoro-ω-(2-hydroxyethyl)poly(difluoromethylene), hexakis(methoxymethyl)melamine and polyethylene glycol	0	100	0
0000764410	1,4-Dichloro-2-butene	1	84	15
0000106467	1,4-Dichlorobenzene	7	49	44
0000123911	1,4-Dioxane	1	55	44
0000624180	1,4-Phenylenediamine dihydrochloride	0	0	100
0000081492	1-Amino-2,4-dibromoanthraquinone	0	0	100
0000082280	1-Amino-2-methylanthraquinone	0	0	100
0035691657	1-Bromo-1-(bromomethyl)-1,3-propanedicarbonitrile	0	0	100
0000106945	1-Bromopropane	1	70	29
0000354256	1-Chloro-1,1,2,2-tetrafluoroethane (HCFC-124a)	0	99	1
0000075683	1-Chloro-1,1-difluoroethane (HCFC-142b)	1	98	1
0067906427	1-Decanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heneicosafluoro-, ammonium salt	0	100	0
0027619905	1-Decanesulfonyl chloride, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-	0	100	0
0000678397	1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-	0	100	0
0027619916	1-Dodecanesulfonyl chloride, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluoro-	0	100	0
0000865861	1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluoro-	0	100	0
0065104656	1-Eicosanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,20-heptatriacontafluoro-	0	100	0
0068555760	1-Heptanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-N-(2-hydroxyethyl)-N-methyl-	0	100	0
0068957620	1-Heptanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-	0	100	0

CAS#/Chemical Category	Chemical	Default % to 8.1C	Default % to 8.1D	Default % to 8.7
0068259074	1-Heptanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-, ammonium salt	0	100	0
0070225159	1-Heptanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-, compd. with 2,2'-iminobis[ethanol] (1:1)	0	100	0
0060270555	1-Heptanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-, potassium salt	0	100	0
0000335717	1-Heptanesulfonyl fluoride, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-	0	100	0
0060699516	1-Hexadecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16-nonacosafluoro-	0	100	0
0068555759	1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-N-methyl-	0	100	0
0068259085	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, ammonium salt	0	100	0
0070225160	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. with 2,2'-iminobis[ethanol] (1:1)	0	100	0
0003871996	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, potassium salt	0	100	0
0017202414	1-Nonanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-nonadecafluoro-, ammonium salt	0	100	0
0065104678	1-Octadecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,18-tritriacontafluoro-	0	100	0
0024448097	1-Octanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-N-methyl-	0	100	0
0031506328	1-Octanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-methyl-	0	100	0
0178094694	1-Octanesulfonamide, N-[3-(dimethyloxidoamino)propyl]-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, potassium salt	0	100	0
0002263094	1-Octanesulfonamide, N-butyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-	0	100	0
0067969691	1-Octanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-[2-(phosphonooxy)ethyl]-, diammonium salt	0	100	0
0061660126	1-Octanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-[3-(trimethoxysilyl)propyl]-	0	100	0
0029081569	1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, ammonium salt	0	100	0

CAS#/Chemical Category	Chemical	Default % to 8.1C	Default % to 8.1D	Default % to 8.7
0070225148	1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, compd. with 2,2'-iminobis[ethanol] (1:1)	0	100	0
0068555748	1-Pentanesulfonamide, 1,1,2,2,3,3,4,4,5,5,5-undecafluoro-N-(2-hydroxyethyl)-N-methyl-	0	100	0
0068259096	1-Pentanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,5-undecafluoro-, ammonium salt	0	100	0
0070225171	1-Pentanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,5-undecafluoro-, compd. with 2,2'-iminobis[ethanol] (1:1)	0	100	0
0003872251	1-Pentanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,5-undecafluoro-, potassium salt	0	100	0
0070983607	1-Propanaminium, 2-hydroxy-N,N,N-trimethyl-, 3-[(γ-ω-perfluoro-C6-20-alkyl)thio] derivs., chlorides	0	100	0
0038006745	1-Propanaminium, 3-[[(heptadecafluorooctyl)sulfonyl]amino]-N,N,N- trimethyl-, chloride	0	100	0
1078715613	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-[2-[(γ-ω-perfluoro-C4-20-alkyl)thio]acetyl] derivs., inner salts	0	100	0
0068555817	1-Propanaminium, N,N,N-trimethyl-3-[[(pentadecafluoroheptyl)sulfonyl]amino]-, chloride	0	100	0
0067584581	1-Propanaminium, N,N,N-trimethyl-3-[[(pentadecafluoroheptyl)sulfonyl]amino]-, iodide	0	100	0
0052166822	1-Propanaminium, N,N,N-trimethyl-3-[[(tridecafluorohexyl)sulfonyl]amino]-, chloride	0	100	0
0068957584	1-Propanaminium, N,N,N-trimethyl-3-[[(tridecafluorohexyl)sulfonyl]amino]-, iodide	0	100	0
0068957551	1-Propanaminium, N,N,N-trimethyl-3-[[(undecafluoropentyl)sulfonyl]amino]-, chloride	0	100	0
0068957573	1-Propanaminium, N,N,N-trimethyl-3-[[(undecafluoropentyl)sulfonyl]amino]-, iodide	0	100	0
0068187473	1-Propanesulfonic acid, 2-methyl-, 2-[[1-oxo-3-[(γ-ω-perfluoro-C4-16-alkyl)thio]propyl]amino] derivs., sodium salts	0	100	0
0068758576	1-Tetradecanesulfonyl chloride, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafluoro-	0	100	0
0039239775	1-Tetradecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafluoro-	0	100	0
0003296900	2,2-Bis(bromomethyl)-1,3-propanediol	0	0	100
0128903219	2,2-Dichloro-1,1,1,3,3-pentafluoropropane (HCFC-225aa)	0	0	100
0000306832	2,2-Dichloro-1,1,1-trifluoroethane (HCFC-123)	1	98	1
0002655154	2,3,5-Trimethylphenyl methylcarbamate	0	0	100
0000422480	2,3-dichloro-1,1,1,2,3-pentafluoropropane (HCFC-225ba)	0	0	100
0000078886	2,3-Dichloropropene	1	67	32

CAS#/Chemical Category	Chemical	Default % to 8.1C	Default % to 8.1D	Default % to 8.7
0000095954	2,4,5-Trichlorophenol	13	25	62
0000088062	2,4,6-Trichlorophenol	9	9	82
0000094757	2,4-D	2	6	92
0001929733	2,4-D 2-butoxyethyl ester	12	1	87
0053404378	2,4-D 2-ethyl-4-methylpentyl ester	21	0	79
0001928434	2,4-D 2-ethylhexyl ester	22	0	78
0000094804	2,4-D butyl ester	15	1	84
0002971382	2,4-D chlorocrotyl ester	16	0	84
0000094111	2,4-D isopropyl ester	8	2	90
0001320189	2,4-D propylene glycol butyl ether ester	15	0	85
0002702729	2,4-D sodium salt	2	6	92
0000094826	2,4-DB	0	0	100
0000615054	2,4-Diaminoanisole	0	0	100
0039156417	2,4-Diaminoanisole sulfate	0	0	100
0000095807	2,4-Diaminotoluene	1	55	44
0000120832	2,4-Dichlorophenol	3	5	92
0000105679	2,4-Dimethylphenol	1	23	76
0000051285	2,4-Dinitrophenol	1	24	75
0000121142	2,4-Dinitrotoluene	1	54	45
0000541537	2,4-Dithiobiuret	1	51	48
0000120365	2,4-DP	8	34	58
0000576261	2,6-Dimethylphenol	0	0	100
0000606202	2,6-Dinitrotoluene	2	53	45
0000087627	2,6-Xylidine	2	53	45
0025268773	2-[[(Heptadecafluorooctyl)sulfonyl]methylamino]ethyl acrylate	0	100	0
0000383073	2-[Butyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl acrylate	0	100	0
0000423825	2-[Ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl acrylate	0	100	0
0000376147	2-[Ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl methacrylate	0	100	0
0000053963	2-Acetylaminofluorene	5	42	53
0000117793	2-Aminoanthraquinone	2	52	46
0000052517	2-Bromo-2-nitropropane-1,3-diol	0	0	100
0002837890	2-Chloro-1,1,1,2-tetrafluoroethane (HCFC-124)	0	99	1
0000075887	2-Chloro-1,1,1-trifluoroethane (HCFC-133a)	0	99	1
0000532274	2-Chloroacetophenone	0	0	100
0000110805	2-Ethoxyethanol	0	8	92
0000149304	2-Mercaptobenzothiazole	2	52	46
0000109864	2-Methoxyethanol	0	8	92
0000075865	2-Methyllactonitrile	0	0	100
0000109068	2-Methylpyridine	0	8	92
0000088755	2-Nitrophenol	1	59	40
0000079469	2-Nitropropane	1	26	73

CAS#/Chemical Category	Chemical	Default % to 8.1C	Default % to 8.1D	Default % to 8.7
0000090437	2-Phenylphenol	3	5	92
0068084628	2-Propenoic acid, 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl ester	0	100	0
0068867607	2-Propenoic acid, 2-[[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl ester, polymer with 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate and α-(1-oxo-2-propenyl)-ω-methoxypoly(oxy-1,2-ethanediyl)	0	100	0
0068298624	2-Propenoic acid, 2-[butyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl ester, telomer with 2-[butyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, methyloxirane polymer with oxirane di-2-propenoate, methyloxirane polymer with oxirane mono-2-propenoate and 1-octanethiol	0	100	0
0059071102	2-Propenoic acid, 2-[ethyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl ester	0	100	0
0067584570	2-Propenoic acid, 2-[methyl[(tridecafluorohexyl)sulfonyl]amino]ethyl ester	0	100	0
0067584569	2-Propenoic acid, 2-[methyl[(undecafluoropentyl)sulfonyl]amino]ethyl ester	0	100	0
0150135572	2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymers with Bu acrylate, γ-ω-perfluoro-C8-14-alkyl acrylate and polyethylene glycol monomethacrylate, 2,2'-azobis[2,4-dimethylpentanenitrile]-initiated	0	100	0
0196316344	2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymers with γ-ω-perfluoro-C10-16-alkyl acrylate and vinyl acetate, acetates	0	100	0

CAS#/Chemical Category	Chemical	Default % to 8.1C	Default % to 8.1D	Default % to 8.7
0068555919	2-Propenoic acid, 2-methyl-, 2-[ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl ester, polymer with 2-[ethyl[(nonafluorobutyl)sulfonyl]amino]ethyl-methyl-2-propenoate, 2-[ethyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(tridecafluorohexyl)sulfonyl]amino]ethyl 2-methyl- 2-propenoate, 2-[ethyl[(undecafluoropentyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate and octadecyl 2-methyl-2-propenoate	0	100	0
0068239430	2-Propenoic acid, 2-methyl-, 2-ethylhexyl ester, polymer with α-fluoro-ω-[2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl]poly(difluoromethylene), 2-hydroxyethyl 2-methyl-2-propenoate and N-(hydroxymethyl)-2-propenamide	0	100	0
0001996889	2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl ester	0	100	0
0002144549	2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluorododecyl ester	0	100	0
0006014751	2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafluorotetradecyl ester	0	100	0
0004980534	2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16-nonacosafluorohexadecyl ester	0	100	0
0065605596	2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with α-fluoro-ω-[2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl]poly(difluoromethylene) and N-(hydroxymethyl)-2-propenamide	0	100	0
0142636882	2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluorododecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafluorotetradecyl 2-propenoate	0	100	0
0200513424	2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate	0	100	0

CAS#/Chemical Category	Chemical	Default % to 8.1C	Default % to 8.1D	Default % to 8.7
0068227963	2-Propenoic acid, butyl ester, telomer with 2-[[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, α-(2-methyl-1-oxo-2-propenyl)-ω-hydroxypoly(oxy-1,4-butanediyl), α-(2-methyl-1-oxo-2-propenyl)-ω-[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,4-butanediyl), 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate and 1-octanethiol	0	100	0
0065605585	2-Propenoic acid, esters, 2-methyl-, dodecyl ester, polymer with α-fluoro-ω-[2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl]poly(difluoromethylene)	0	100	0
0000422560	3,3-Dichloro-1,1,1,2,2-pentafluoropropane (HCFC-225ca)	3	96	1
0000091941	3,3'-Dichlorobenzidine	9	32	59
0000612839	3,3'-Dichlorobenzidine dihydrochloride	9	32	59
0064969342	3,3'-Dichlorobenzidine sulfate	0	0	100
0000119904	3,3'-Dimethoxybenzidine	1	54	45
0020325400	3,3'-Dimethoxybenzidine dihydrochloride	1	55	44
0111984099	3,3'-Dimethoxybenzidine monohydrochloride	0	0	100
0000119937	3,3'-Dimethylbenzidine	1	23	76
0000612828	3,3'-Dimethylbenzidine dihydrochloride	0	0	100
0041766750	3,3'-Dimethylbenzidine dihydrofluoride	0	0	100
0001652637	3-[[(Heptadecafluorooctyl)sulfonyl]amino]-N,N,N-trimethyl-1-propanaminium iodide	0	100	0
0000460355	3-Chloro-1,1,1-trifluoropropane (HCFC-253fb)	1	98	1
0000563473	3-Chloro-2-methyl-1-propene	1	93	6
0000542767	3-Chloropropionitrile	1	55	44
0055406536	3-Iodo-2-propynyl butylcarbamate	1	23	76
0000101804	4,4'-Diaminodiphenyl ether	1	24	75
0000080057	4,4'-Isopropylidenediphenol	5	14	81
0000101144	4,4'-Methylenebis(2-chloroaniline)	17	18	65
0000101611	4,4'-Methylenebis(N,N-dimethyl)benzenamine	0	0	100
0000101688	4,4'-Methylenedi(phenyl isocyanate)	0	0	100
0000101779	4,4'-Methylenedianiline	1	24	75
0000139651	4,4'-Thiodianiline	0	0	100
0000534521	4,6-Dinitro-o-cresol	2	53	45
0000060093	4-Aminoazobenzene	8	35	57
0000092671	4-Aminobiphenyl	3	47	50
0000060117	4-Dimethylaminoazobenzene	35	5	60
0000092933	4-Nitrobiphenyl	0	0	100

CAS#/Chemical Category	Chemical	Default % to 8.1C	Default % to 8.1D	Default % to 8.7
0000100027	4-Nitrophenol	0	93	7
0000099592	5-Nitro-o-anisidine	0	0	100
0000099558	5-Nitro-o-toluidine	1	54	45
0071751412	Abamectin	44	2	54
0030560191	Acephate	1	55	44
0000075070	Acetaldehyde	0	9	91
0000060355	Acetamide	0	8	92
0000067641	Acetone	0	0	100
0000075058	Acetonitrile	1	25	74
0000098862	Acetophenone	0	8	92
0062476599	Acifluorfen, sodium salt	12	25	63
0000107028	Acrolein	0	9	91
0000079061	Acrylamide	0	8	92
0000079107	Acrylic acid	0	8	92
0000107131	Acrylonitrile	0	9	91
0015972608	Alachlor	7	11	82
0068391082	Alcohols, C8-14, γ-ω-perfluoro	0	100	0
0000116063	Aldicarb	1	54	45
0000309002	Aldrin	62	1	37
0097659477	Alkenes, C8-14 α-, d-ω-perfluoro	0	100	0
0068188125	Alkyl iodides, C4-20, γ-ω-perfluoro	0	100	0
0000107186	Allyl alcohol	0	8	92
0000107051	Allyl chloride	1	85	14
0000107119	Allylamine	1	25	74
0000319846	alpha-Hexachlorocyclohexane	0	0	100
0000134327	alpha-Naphthylamine	1	24	75
0007429905	Aluminum (fume or dust)	66	34	0
0001344281	Aluminum oxide (fibrous forms)	2	98	0
0020859738	Aluminum phosphide	2	98	0
0000834128	Ametryn	4	45	51
0033089611	Amitraz	0	0	100
0000061825	Amitrole	1	55	44
0007664417	Ammonia	0	40	60
0006484522	Ammonium nitrate (solution)	0	0	100
0003825261	Ammonium perfluorooctanoate	0	100	0
0007783202	Ammonium sulfate (solution)	0	0	100
0000101053	Anilazine	16	19	65
0000062533	Aniline	0	8	92
0000120127	Anthracene	31	8	61
0007440360	Antimony	32	68	0
N010	Antimony compounds	32	68	0
0007440382	Arsenic	49	51	0
N020	Arsenic compounds	49	51	0
0001332214	Asbestos (friable)	0	0	100
0001912249	Atrazine	3	74	23

CAS#/Chemical Category	Chemical	Default % to 8.1C	Default % to 8.1D	Default % to 8.7
0007440393	Barium	69	31	0
N040	Barium compounds (except for barium sulfate (CAS No. 7727-43-7))	69	31	0
0022781233	Bendiocarb	1	23	76
0001861401	Benfluralin	56	3	41
0017804352	Benomyl	1	49	50
0000098873	Benzal chloride	0	0	100
0000055210	Benzamide	0	0	100
0000071432	Benzene	1	23	76
0000092875	Benzidine	1	25	74
0000191242	Benzo[g,h,i]perylene	0	0	100
0000098077	Benzoic trichloride	0	0	100
0000098884	Benzoyl chloride	0	0	100
0000094360	Benzoyl peroxide	5	3	92
0000100447	Benzyl chloride	1	27	72
0007440417	Beryllium	37	63	0
N050	Beryllium compounds	37	63	0
0000091598	beta-Naphthylamine	1	23	76
0000057578	beta-Propiolactone	0	0	100
0082657043	Bifenthrin	38	0	62
0000092524	Biphenyl	10	2	88
0000108601	Bis(2-chloro-1-methylethyl) ether	2	53	45
0000111911	Bis(2-chloroethoxy)methane	1	78	21
0000111444	Bis(2-chloroethyl) ether	2	78	20
0000103231	Bis(2-ethylhexyl) adipate	0	0	100
0000542881	Bis(chloromethyl) ether	0	0	100
0000056359	Bis(tributyltin) oxide	0	0	100
0010294345	Boron trichloride	2	98	0
0007637072	Boron trifluoride	2	98	0
0000314409	Bromacil	2	53	45
0053404196	Bromacil, lithium salt	0	0	100
0007726956	Bromine	2	98	0
0000353593	Bromochlorodifluoromethane (Halon 1211)	1	98	1
0000075252	Bromoform	2	57	41
0000074839	Bromomethane	0	80	20
0000075638	Bromotrifluoromethane (Halon 1301)	0	99	1
0001689845	Bromoxynil	6	13	81
0001689992	Bromoxynil octanoate	38	0	62
0000357573	Brucine	1	55	44
0068187257	Butanoic acid, 4-[[3-(dimethylamino)propyl]amino]-4-oxo-, 2(or 3)-[(γ-ω-perfluoro-C6-20-alkyl)thio] derivs.	0	100	0
0000141322	Butyl acrylate	1	9	90
0000085687	Butyl benzyl phthalate	0	0	100
0000123728	Butyraldehyde	0	9	91
0002650182	C.I. Acid Blue 9, Diammonium Salt	0	0	100

CAS#/Chemical Category	Chemical	Default % to 8.1C	Default % to 8.1D	Default % to 8.7
0003844459	C.I. Acid Blue 9, Disodium Salt	0	0	100
0004680788	C.I. Acid Green 3	0	0	100
0006459945	C.I. Acid Red 114	0	0	100
0000569642	C.I. Basic Green 4	0	0	100
0000989388	C.I. Basic Red 1	0	0	100
0001937377	C.I. Direct Black 38	0	0	100
0028407376	C.I. Direct Blue 218	0	0	100
0002602462	C.I. Direct Blue 6	0	0	100
0016071866	C.I. Direct Brown 95	0	0	100
0002832408	C.I. Disperse Yellow 3	0	0	100
0000081889	C.I. Food Red 15	0	0	100
0003761533	C.I. Food Red 5	0	0	100
0014302137	C.I. Pigment Green 36	0	0	100
0001328536	C.I. Pigment Green 7	0	0	100
0003118976	C.I. Solvent Orange 7	0	0	100
0000842079	C.I. Solvent Yellow 14	0	0	100
0000097563	C.I. Solvent Yellow 3	0	0	100
0000492808	C.I. Solvent Yellow 34	2	50	48
0000128665	C.I. Vat Yellow 4	0	0	100
0007440439	Cadmium	68	32	0
N078	Cadmium compounds	68	32	0
0000156627	Calcium cyanamide	2	98	0
0000133062	Captan	1	23	76
0000063252	Carbaryl	1	12	87
0001563662	Carbofuran	1	7	92
0000075150	Carbon disulfide	1	87	12
0000056235	Carbon tetrachloride	2	88	10
0000463581	Carbonyl sulfide	0	84	16
0005234684	Carboxin	1	24	75
0000120809	Catechol	0	8	92
N230	Certain glycol ethers	0	8	92
0002439012	Chinomethionate	0	0	100
0000133904	Chloramben	0	0	100
0000057749	Chlordane	61	1	38
0000115286	Chlorendic acid	0	0	100
0090982324	Chlorimuron-ethyl	1	23	76
0007782505	Chlorine	2	98	0
0010049044	Chlorine dioxide	2	98	0
0000079118	Chloroacetic acid	0	8	92
0000108907	Chlorobenzene	2	39	59
0000510156	Chlorobenzilate	39	3	58
0000075456	Chlorodifluoromethane (HCFC-22)	1	88	11
0000075003	Chloroethane	1	85	14
0000067663	Chloroform	1	73	26
0000074873	Chloromethane	1	59	40

CAS#/Chemical Category	Chemical	Default % to 8.1C	Default % to 8.1D	Default % to 8.7
0000107302	Chloromethyl methyl ether	0	0	100
N084	Chlorophenols	54	4	42
0000076062	Chloropicrin	1	88	11
0000126998	Chloroprene	1	93	6
0063938103	Chlorotetrafluoroethane	0	0	100
0001897456	Chlorothalonil	3	18	79
0000075729	Chlorotrifluoromethane (CFC-13)	0	99	1
0005598130	Chlorpyrifos-methyl	0	0	100
0064902723	Chlorsulfuron	1	54	45
0007440473	Chromium	76	24	0
N090	Chromium compounds (except for chromite ore mined in the Transvaal Region)	76	24	0
0068141026	Chromium(III) perfluorooctanoate	0	100	0
0007440484	Cobalt	32	68	0
N096	Cobalt compounds	32	68	0
0007440508	Copper	72	28	0
N100	Copper compounds	72	28	0
0008001589	Creosote	0	0	100
0001319773	Cresol (mixed isomers)	0	8	92
0004170303	Crotonaldehyde	0	10	90
0000098828	Cumene	7	13	80
0000080159	Cumene hydroperoxide	1	24	75
0000135206	Cupferron	0	0	100
0021725462	Cyanazine	2	76	22
N106	Cyanide compounds	2	98	0
0001134232	Cycloate	0	0	100
0000110827	Cyclohexane	6	19	75
0067584423	Cyclohexanesulfonic acid, decafluoro(pentafluoroethyl)-, potassium salt	0	100	0
0068156070	Cyclohexanesulfonic acid, decafluoro(trifluoromethyl)-, potassium salt	0	100	0
0068156014	Cyclohexanesulfonic acid, nonafluorobis(trifluoromethyl)-, potassium salt	0	100	0
0003107184	Cyclohexanesulfonic acid, undecafluoro-, potassium salt	0	100	0
0000108930	Cyclohexanol	0	9	91
0068359375	Cyfluthrin	38	0	62
0068085858	Cyhalothrin	0	0	100
0000533744	Dazomet	0	3	97
0053404607	Dazomet, sodium salt	0	0	100
0001163195	Decabromodiphenyl oxide	62	1	37
0002043530	Decane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-10-iodo-	0	100	0
0013684565	Desmedipham	5	9	86
0000117817	Di(2-ethylhexyl) phthalate	38	0	62
0002303164	Diallate	21	14	65

CAS#/Chemical Category	Chemical	Default % to 8.1C	Default % to 8.1D	Default % to 8.7
0025376458	Diaminotoluene (mixed isomers)	1	78	21
0000333415	Diazinon	12	7	81
0000334883	Diazomethane	0	0	100
0000132649	Dibenzofuran	18	4	78
0000124732	Dibromotetrafluoroethane	2	97	1
0000084742	Dibutyl phthalate	29	1	70
0001918009	Dicamba	1	53	46
0000099309	Dichloran	0	0	100
0090454185	Dichloro-1,1,2-trifluoroethane	0	0	100
0025321226	Dichlorobenzene (mixed isomers)	8	47	45
0000075274	Dichlorobromomethane	1	68	31
0000075718	Dichlorodifluoromethane (CFC-12)	0	99	1
0000075434	Dichlorofluoromethane (HCFC-21)	1	91	8
0000075092	Dichloromethane	1	44	55
0127564925	Dichloropentafluoropropane	3	96	1
0000097234	Dichlorophene	0	0	100
0000076142	Dichlorotetrafluoroethane (CFC-114)	2	97	1
0034077877	Dichlorotrifluoroethane	1	98	1
0000062737	Dichlorvos	1	25	74
0051338273	Diclofop methyl	0	0	100
0000115322	Dicofol	44	2	54
0000077736	Dicyclopentadiene	7	84	9
0001464535	Diepoxybutane	1	25	74
0000111422	Diethanolamine	0	8	92
0038727558	Diethatyl ethyl	0	0	100
0000084662	Diethyl phthalate	0	0	100
0000064675	Diethyl sulfate	0	5	95
0035367385	Diflubenzuron	13	6	81
0000101906	Diglycidyl resorcinol ether	1	25	74
0000094586	Dihydrosafrole	10	30	60
N120	Diisocyanates	0	0	100
0055290647	Dimethipin	1	55	44
0000060515	Dimethoate	1	55	44
0002524030	Dimethyl chlorothiophosphate	0	0	100
0000131113	Dimethyl phthalate	0	8	92
0000077781	Dimethyl sulfate	0	3	97
0000124403	Dimethylamine	0	8	92
0002300665	Dimethylamine dicamba	1	54	45
0000079447	Dimethylcarbamoyl chloride	0	0	100
0000088857	Dinitrobutyl phenol	12	54	34
0025321146	Dinitrotoluene (mixed isomers)	1	53	46
0039300453	Dinocap	0	0	100
N150	Dioxin and dioxin-like compounds	0	0	100
0000957517	Diphenamid	0	0	100
0000122394	Diphenylamine	7	12	81

CAS#/Chemical Category	Chemical	Default % to 8.1C	Default % to 8.1D	Default % to 8.7
0002164070	Dipotassium endothall	1	24	75
0000136458	Dipropyl isocinchomeronate	6	3	91
0000138932	Disodium cyanodithioimidocarbonate	0	0	100
0118400718	Disulfides, bis(γ-ω-perfluoro-C6-20-alkyl)	0	100	0
0000330541	Diuron	2	50	48
0002043541	Dodecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heneicosafluoro-12-iodo-	0	100	0
0002439103	Dodine	0	0	100
0028434006	d-trans-Allethrin	0	0	100
0000106898	Epichlorohydrin	1	55	44
0056773423	Ethanaminium, N,N,N-triethyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonic acid (1:1)	0	100	0
0065636353	Ethanaminium, N,N-diethyl-N-methyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, methyl sulfate, polymer with 2-ethylhexyl 2-methyl-2-propenoate, α-fluoro-ω-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]poly(difluoromethylene), 2-hydroxyethyl 2-methyl-2-propenoate and N-(hydroxymethyl)-2-propenamide	0	100	0
0182176529	Ethaneperoxoic acid, reaction products with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl thiocyanate and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl thiocyanate	0	100	0
0065530645	Ethanol, 2,2'-iminobis-, compd. with α,α'-[phosphinicobis(oxy-2,1-ethanediyl)]bis[ω-fluoropoly(difluoromethylene)] (1:1)	0	100	0
0065530747	Ethanol, 2,2'-iminobis-, compd. with α-fluoro-ω-[2-(phosphonooxy)ethyl]poly(difluoromethylene) (1:1)	0	100	0
0065530634	Ethanol, 2,2'-iminobis-, compd. with α-fluoro-ω-[2-(phosphonooxy)ethyl]poly(difluoromethylene) (2:1)	0	100	0
0013194484	Ethoprop	10	29	61
0000140885	Ethyl acrylate	0	10	90
0000541413	Ethyl chloroformate	1	43	56
0000100414	Ethylbenzene	3	45	52
0000074851	Ethylene	0	92	8
0000107211	Ethylene glycol	0	8	92
0000075218	Ethylene oxide	0	9	91
0000096457	Ethylene thiourea	1	55	44
N171	Ethylenebisdithiocarbamic acid, salts and esters	2	98	0
0000151564	Ethyleneimine	1	55	44
0000075343	Ethylidene dichloride	1	78	21
0000052857	Famphur	0	0	100
0072623779	Fatty acids, C6-18, perfluoro, ammonium salts	0	100	0
0072968388	Fatty acids, C7-13, perfluoro, ammonium salts	0	100	0

CAS#/Chemical Category	Chemical	Default % to 8.1C	Default % to 8.1D	Default % to 8.7
0178535234	Fatty acids, linseed-oil, γ-ω-perfluoro-C8-14-alkyl esters	0	100	0
0060168889	Fenarimol	0	0	100
0013356086	Fenbutatin oxide	0	0	100
0066441234	Fenoxaprop-ethyl	0	0	100
0072490018	Fenoxycarb	0	0	100
0039515418	Fenpropathrin	0	0	100
0000055389	Fenthion	0	0	100
0051630581	Fenvalerate	0	0	100
0014484641	Ferbam	0	0	100
0069806504	Fluazifop-butyl	0	0	100
0002164172	Fluometuron	2	52	46
0007782414	Fluorine	2	98	0
0000051218	Fluorouracil	1	55	44
0069409945	Fluvalinate	0	0	100
0000133073	Folpet	2	20	78
0072178020	Fomesafen	3	47	50
0000050000	Formaldehyde	0	8	92
0000064186	Formic acid	0	8	92
0000076131	Freon 113 (CFC-113)	3	96	1
0000110009	Furan	0	0	100
0000556525	Glycidol	0	0	100
0055910106	Glycine, N-[(heptadecafluorooctyl)sulfonyl]-N-propyl-, potassium salt	0	100	0
0002991517	Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt	0	100	0
0067584627	Glycine, N-ethyl-N-[(pentadecafluoroheptyl)sulfonyl]-, potassium salt	0	100	0
0067584536	Glycine, N-ethyl-N-[(tridecafluorohexyl)sulfonyl]-, potassium salt	0	100	0
0067584525	Glycine, N-ethyl-N-[(undecafluoropentyl)sulfonyl]-, potassium salt	0	100	0
0000076448	Heptachlor	50	1	49
N270	Hexabromocyclododecane	0	6	94
0000087683	Hexachloro-1,3-butadiene	45	23	32
0000118741	Hexachlorobenzene	60	2	38
0000077474	Hexachlorocyclopentadiene	44	11	45
0000067721	Hexachloroethane	18	56	26
0001335871	Hexachloronaphthalene	0	0	100
0000070304	Hexachlorophene	62	1	37
0065510556	Hexadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14-nonacosafluoro-16-iodo-	0	100	0
0013252136	Hexafluoropropylene oxide dimer acid	0	100	0
0062037803	Hexafluoropropylene oxide dimer acid ammonium salt	0	100	0
0000680319	Hexamethylphosphoramide	0	0	100

CAS#/Chemical Category	Chemical	Default % to 8.1C	Default % to 8.1D	Default % to 8.7
0135228603	Hexane, 1,6-diisocyanato-, homopolymer, γ-ω-perfluoro-C6-20-alc.-blocked	0	100	0
0051235042	Hexazinone	19	16	65
0067485294	Hydramethylnon	53	0	47
0000302012	Hydrazine	0	15	85
0010034932	Hydrazine sulfate (1:1)	2	98	0
0007647010	Hydrochloric acid (acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size)	0	0	100
0000074908	Hydrogen cyanide	2	98	0
0007664393	Hydrogen fluoride	2	98	0
0007783064	Hydrogen sulfide	0	0	100
0000123319	Hydroquinone	0	8	92
0035554440	Imazalil	15	21	64
0013463406	Iron pentacarbonyl	0	0	100
0000078842	Isobutyraldehyde	0	9	91
0000465736	Isodrin	62	1	37
0025311711	Isofenphos	0	0	100
0000078795	Isoprene	0	0	100
0000067630	Isopropyl alcohol (only persons who manufacture by the strong acid process are subject, no supplier notification)	0	0	100
0000120581	Isosafrole	7	36	57
0077501634	Lactofen	31	0	69
0007439921	Lead	63	37	0
N420	Lead compounds	63	37	0
0000058899	Lindane	13	24	63
0000330552	Linuron	5	41	54
0029457725	Lithium (perfluorooctane)sulfonate	0	100	0
0000554132	Lithium carbonate	2	98	0
0000121755	Malathion	1	7	92
0000108316	Maleic anhydride	0	0	100
0000109773	Malononitrile	1	55	44
0012427382	Maneb	2	98	0
0007439965	Manganese	39	61	0
N450	Manganese compounds	39	61	0
0000108394	m-Cresol	0	8	92
0000099650	m-Dinitrobenzene	1	54	45
0000093652	Mecoprop	5	42	53
0000108781	Melamine	0	0	100
0007439976	Mercury	69	31	0
N458	Mercury compounds	69	31	0
0000150505	Merphos	22	0	78
0000126987	Methacrylonitrile	1	27	72
0000137428	Metham sodium	0	27	73
0000067561	Methanol	0	8	92
0020354261	Methazole	0	0	100

CAS#/Chemical Category	Chemical	Default % to 8.1C	Default % to 8.1D	Default % to 8.7
0002032657	Methiocarb	0	0	100
0000094746	Methoxone	6	39	55
0003653483	Methoxone sodium salt	1	25	74
0000072435	Methoxychlor	45	2	53
0000096333	Methyl acrylate	0	9	91
0000079221	Methyl chlorocarbonate	0	1	99
0000078933	Methyl ethyl ketone	0	0	100
0000060344	Methyl hydrazine	1	25	74
0000074884	Methyl iodide	1	78	21
0000108101	Methyl isobutyl ketone	0	9	91
0000624839	Methyl isocyanate	0	0	100
0000556616	Methyl isothiocyanate	0	0	100
0000080626	Methyl methacrylate	0	10	90
0000298000	Methyl parathion	2	6	92
0000376272	Methyl perfluorooctanoate	0	100	0
0001634044	Methyl tert-butyl ether	1	60	39
0000074953	Methylene bromide	1	61	38
0000093152	Methyleugenol	0	0	100
0009006422	Metiram	0	0	100
0021087649	Metribuzin	1	54	45
0007786347	Mevinphos	0	0	100
0000090948	Michler's ketone	0	0	100
0002212671	Molinate	0	0	100
0001313275	Molybdenum trioxide	2	98	0
0000076153	Monochloropentafluoroethane (CFC-115)	1	98	1
0000150685	Monuron	0	0	100
0000505602	Mustard gas	0	0	100
0000108383	m-Xylene	3	18	79
0088671890	Myclobutanil	9	32	59
0000121697	N,N-Dimethylaniline	2	53	45
0000068122	N,N-Dimethylformamide	0	8	92
0000142596	Nabam	0	10	90
0000300765	Naled	1	25	74
0000091203	Naphthalene	4	6	90
0000071363	n-Butyl alcohol	0	8	92
0000117840	n-Dioctyl phthalate	0	0	100
0001691992	N-Ethyl-N-(2-hydroxyethyl)perfluorooctanesulfonamide	0	100	0
0000110543	n-Hexane	9	53	38
0007440020	Nickel	38	62	0
N495	Nickel compounds	38	62	0
N503	Nicotine and salts	2	98	0
0001929824	Nitrapyrin	7	36	57
N511	Nitrate compounds (water dissociable; reportable only when in aqueous solution)	0	10	90
0007697372	Nitric acid	0	0	100

CAS#/Chemical Category	Chemical	Default % to 8.1C	Default % to 8.1D	Default % to 8.7
0000139139	Nitrilotriacetic acid	0	8	92
0000098953	Nitrobenzene	0	8	92
0001836755	Nitrofen	0	0	100
0000051752	Nitrogen mustard	0	0	100
0000055630	Nitroglycerin	1	24	75
0000075525	Nitromethane	0	0	100
0000872504	N-Methyl-2-pyrrolidone	0	8	92
0000924425	N-Methylolacrylamide	0	8	92
0000055185	N-Nitrosodiethylamine	0	0	100
0000062759	N-Nitrosodimethylamine	0	0	100
0000924163	N-Nitrosodi-n-butylamine	0	0	100
0000621647	N-Nitrosodi-n-propylamine	1	54	45
0000086306	N-Nitrosodiphenylamine	5	42	53
0004549400	N-Nitrosomethylvinylamine	9	51	40
0000059892	N-Nitrosomorpholine	0	0	100
0000759739	N-Nitroso-N-ethylurea	1	55	44
0000684935	N-Nitroso-N-methylurea	1	55	44
0016543558	N-Nitrosonornicotine	0	0	100
0000100754	N-Nitrosopiperidine	1	55	44
N530	Nonylphenol	60	2	38
N535	Nonylphenol Ethoxylates	60	2	38
0027314132	Norflurazon	0	0	100
0000090040	o-Anisidine	1	25	74
0000134292	o-Anisidine hydrochloride	0	0	100
0000095487	o-Cresol	0	8	92
0002234131	Octachloronaphthalene	62	1	37
0029082744	Octachlorostyrene	0	0	100
0016517116	Octadecanoic acid, pentatriacontafluoro-	0	100	0
0000335660	Octanoyl fluoride, pentadecafluoro-	0	100	0
0000528290	o-Dinitrobenzene	1	54	45
0000091236	o-Nitroanisole	0	0	100
0000088722	o-Nitrotoluene	0	0	100
0019044883	Oryzalin	3	49	48
0020816120	Osmium tetroxide	2	98	0
0000095534	o-Toluidine	0	94	6
0000636215	o-Toluidine hydrochloride	1	54	45
0019666309	Oxadiazon	40	3	57
0000301122	Oxydemeton-methyl	0	0	100
0042874033	Oxyfluorfen	39	3	58
0000095476	o-Xylene	3	16	81
0010028156	Ozone	2	98	0
0000104949	p-Anisidine	0	0	100
0000123637	Paraldehyde	1	55	44
0001910425	Paraquat dichloride	1	55	44
0000056382	Parathion	9	2	89

CAS#/Chemical Category	Chemical	Default % to 8.1C	Default % to 8.1D	Default % to 8.7
0000106478	p-Chloroaniline	1	54	45
0000095692	p-Chloro-o-toluidine	0	0	100
0000104121	p-Chlorophenyl isocyanate	0	0	100
0000120718	p-Cresidine	1	54	45
0000106445	p-Cresol	0	8	92
0000100254	p-Dinitrobenzene	1	54	45
0001114712	Pebulate	0	0	100
0040487421	Pendimethalin	47	1	52
0000608935	Pentachlorobenzene	0	0	100
0000076017	Pentachloroethane	6	75	19
0000087865	Pentachlorophenol	54	4	42
0071608601	Pentanoic acid, 4,4-bis[(γ-ω-perfluoro-C8-20-alkyl)thio] derivs.	0	100	0
0000057330	Pentobarbital sodium	2	53	45
0000079210	Peracetic acid	0	8	92
0000594423	Perchloromethyl mercaptan	0	0	100
0000335762	Perfluorodecanoic acid	0	100	0
0000307551	Perfluorododecanoic acid	0	100	0
0000355464	Perfluorohexanesulfonic acid	0	100	0
0000375951	Perfluorononanoic acid	0	100	0
0001763231	Perfluorooctane sulfonic acid	0	100	0
0000335671	Perfluorooctanoic acid	0	100	0
0021652584	Perfluorooctyl Ethylene	0	100	0
0000307357	Perfluorooctylsulfonyl fluoride	0	100	0
0067905195	Perfluoropalmitic acid	0	100	0
0000376067	Perfluorotetradecanoic acid	0	100	0
0052645531	Permethrin	38	0	62
0000085018	Phenanthrene	32	6	62
0000108952	Phenol	0	8	92
0000077098	Phenolphthalein	0	0	100
0026002802	Phenothrin	38	0	62
0000057410	Phenytoin	2	51	47
0000075445	Phosgene	0	0	100
0007803512	Phosphine	2	98	0
0068412691	Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivs.	0	100	0
0068412680	Phosphonic acid, perfluoro-C6-12-alkyl derivs.	0	100	0
0007664382	Phosphoric acid	0	0	100
0074499448	Phosphoric acid, γ-ω-perfluoro-C8-16-alkyl esters, compds. with diethanolamine	0	100	0
0012185103	Phosphorus (yellow or white)	60	40	0
0000085449	Phthalic anhydride	0	1	99
0001918021	Picloram	2	90	8
0000088891	Picric acid	1	78	21
0000051036	Piperonyl butoxide	39	3	58
0029232937	Pirimiphos-methyl	0	0	100

CAS#/Chemical Category	Chemical	Default % to 8.1C	Default % to 8.1D	Default % to 8.7
0000100016	p-Nitroaniline	1	54	45
0000156105	p-Nitrosodiphenylamine	0	0	100
0065530623	Poly(difluoromethylene), α,α'-[phosphinicobis(oxy-2,1-ethanediyl)]bis[ω-fluoro-	0	100	0
0065530703	Poly(difluoromethylene), α,α'-[phosphinicobis(oxy-2,1-ethanediyl)]bis[ω-fluoro-, ammonium salt	0	100	0
0123171686	Poly(difluoromethylene), α-[2-(acetyloxy)-3-[(carboxymethyl)dimethylammonio]propyl]-ω-fluoro-, inner salt	0	100	0
0065530838	Poly(difluoromethylene), α-[2-[(2-carboxyethyl)thio]ethyl]-ω-fluoro-	0	100	0
0065530690	Poly(difluoromethylene), α-[2-[(2-carboxyethyl)thio]ethyl]-ω-fluoro-, lithium salt	0	100	0
0065530598	Poly(difluoromethylene), α-fluoro-ω-(2-hydroxyethyl)-, 2-hydroxy-1,2,3-propanetricarboxylate (3:1)	0	100	0
0065605563	Poly(difluoromethylene), α-fluoro-ω-(2-hydroxyethyl)-, dihydrogen 2-hydroxy-1,2,3-propanetricarboxylate	0	100	0
0065605574	Poly(difluoromethylene), α-fluoro-ω-(2-hydroxyethyl)-, hydrogen 2-hydroxy-1,2,3-propanetricarboxylate	0	100	0
0065530612	Poly(difluoromethylene), α-fluoro-ω-[2-(phosphonooxy)ethyl]-	0	100	0
0095144120	Poly(difluoromethylene), α-fluoro-ω-[2-(phosphonooxy)ethyl]-, ammonium salt	0	100	0
0065530725	Poly(difluoromethylene), α-fluoro-ω-[2-(phosphonooxy)ethyl]-, diammonium salt	0	100	0
0065530714	Poly(difluoromethylene), α-fluoro-ω-[2-(phosphonooxy)ethyl]-, monoammonium salt	0	100	0
0065605734	Poly(difluoromethylene), α-fluoro-ω-[2-[(1-oxo-2-propenyl)oxy]ethyl]-, homopolymer	0	100	0
0065530656	Poly(difluoromethylene), α-fluoro-ω-[2-[(1-oxooctadecyl)oxy]ethyl]-	0	100	0
0065530667	Poly(difluoromethylene), α-fluoro-ω-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]-	0	100	0
0080010373	Poly(difluoromethylene), α-fluoro-ω-[2-sulphoethyl)-	0	100	0
0029117086	Poly(oxy-1,2-ethanediyl), α-[2-[ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl]-ω-hydroxy-	0	100	0
0068958612	Poly(oxy-1,2-ethanediyl), α-[2-[ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl]-ω-methoxy-	0	100	0
0068298817	Poly(oxy-1,2-ethanediyl), α-[2-[ethyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl]-ω-hydroxy-	0	100	0
0068958601	Poly(oxy-1,2-ethanediyl), α-[2-[ethyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl]-ω-methoxy-	0	100	0

CAS#/Chemical Category	Chemical	Default % to 8.1C	Default % to 8.1D	Default % to 8.7
0056372237	Poly(oxy-1,2-ethanediyl), α-[2-[ethyl[(tridecafluorohexyl)sulfonyl]amino]ethyl]-ω-hydroxy-	0	100	0
0068298806	Poly(oxy-1,2-ethanediyl), α-[2-[ethyl[(undecafluoropentyl)sulfonyl]amino]ethyl]-ω-hydroxy-	0	100	0
0065545804	Poly(oxy-1,2-ethanediyl), α-hydro-ω-hydroxy-, ether with α-fluoro-ω-(2-hydroxyethyl)poly(difluoromethylene) (1:1)	0	100	0
0070983594	Poly(oxy-1,2-ethanediyl), α-methyl-ω-hydroxy-, 2-hydroxy-3-[(γ-ω-perfluoro-C6-20-alkyl)thio]propyl ethers	0	100	0
0037338480	Poly[oxy(methyl-1,2-ethanediyl)], α-[2-[ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl]-ω-hydroxy-	0	100	0
0068259392	Poly[oxy(methyl-1,2-ethanediyl)], α-[2-[ethyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl]-ω-hydroxy-	0	100	0
0068259381	Poly[oxy(methyl-1,2-ethanediyl)], α-[2-[ethyl[(tridecafluorohexyl)sulfonyl]amino]ethyl]-ω-hydroxy-	0	100	0
0068310178	Poly[oxy(methyl-1,2-ethanediyl)], α-[2-[ethyl[(undecafluoropentyl)sulfonyl]amino]ethyl]-ω-hydroxy-	0	100	0
N575	Polybrominated biphenyls	0	0	100
N583	Polychlorinated alkanes (C10-C13)	0	0	100
0001336363	Polychlorinated biphenyls	61	1	38
N590	Polycyclic aromatic compounds	92	7	1
0007758012	Potassium bromate	2	98	0
0000128030	Potassium dimethyldithiocarbamate	1	28	71
0000137417	Potassium N-methyldithiocarbamate	0	27	73
0002795393	Potassium perfluorooctanesulfonate	0	100	0
0000106503	p-Phenylenediamine	1	55	44
0041198087	Profenofos	0	0	100
0007287196	Prometryn	11	56	33
0023950585	Pronamide	10	30	60
0001918167	Propachlor	1	24	75
0238420809	Propanedioic acid, mono(γ-ω-perfluoro-C8-12-alkyl) derivs., bis[4-(ethenyloxy)butyl] esters	0	100	0
0238420683	Propanedioic acid, mono(γ-ω-perfluoro-C8-12-alkyl) derivs., di-me esters	0	100	0
0000709988	Propanil	4	44	52
0002312358	Propargite	42	44	14
0000107197	Propargyl alcohol	0	8	92
0031218834	Propetamphos	0	0	100
0060207901	Propiconazole	9	32	59

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0000123386	Propionaldehyde	0	9	91
0000114261	Propoxur	0	8	92
0000115071	Propylene	0	91	9
0000075569	Propylene oxide	0	9	91
0000075558	Propyleneimine	1	25	74
0000106423	p-Xylene	3	19	78
0000110861	Pyridine	0	8	92
0061798683	Pyridinium, 1-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)-, salt with 4-methylbenzenesulfonic acid (1:1)	0	100	0
0000091225	Quinoline	1	24	75
0000106514	Quinone	1	59	40
0000082688	Quintozene	43	11	46
0076578148	Quizalofop-ethyl	0	0	100
0010453868	Resmethrin	0	0	100
0000078488	S,S,S-Tributyltrithiophosphate	37	0	63
0000081072	Saccharin (only persons who manufacture are subject, no supplier notification)	1	25	74
0000094597	Safrole	8	34	58
0000078922	sec-Butyl alcohol	0	8	92
0007782492	Selenium	44	56	0
N725	Selenium compounds	44	56	0
0074051802	Sethoxydim	0	0	100
0000759944	S-Ethyl dipropylthiocarbamate	5	41	54
0083048651	Silane, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)trimethoxy-	0	100	0
0078560448	Silane, trichloro(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)-	0	100	0
0125476713	Silicic acid (H4SiO4), disodium salt, reaction products with chlorotrimethylsilane and 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-1-decanol	0	100	0
0143372547	Siloxanes and Silicones, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)oxy Me, hydroxy Me, Me octyl, ethers with polyethylene glycol mono-Me ether	0	100	0
0007440224	Silver	66	34	0
N740	Silver compounds	66	34	0
0000122349	Simazine	2	77	21
0026628228	Sodium azide	2	98	0
0001982690	Sodium dicamba	1	53	46
0000128041	Sodium dimethyldithiocarbamate	1	28	71
0000062748	Sodium fluoroacetate	1	25	74
0001310732	Sodium hydroxide (solution)	0	0	100
0007632000	Sodium nitrite	2	98	0

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0000132274	Sodium o-phenylphenoxide	0	0	100
0000131522	Sodium pentachlorophenate	0	0	100
0000335955	Sodium perfluorooctanoate	0	100	0
0007757826	Sodium sulfate (solution)	0	0	100
N746	Strychnine and salts	2	98	0
0000100425	Styrene	2	13	85
0000096093	Styrene oxide	1	25	74
0004151502	Sulfluramid	0	100	0
0180582790	Sulfonic acids, C6-12-alkane, γ-ω-perfluoro, ammonium salts	0	100	0
0007664939	Sulfuric acid (acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size)	0	0	100
0002699798	Sulfuryl fluoride	2	98	0
0035400432	Sulprofos	0	0	100
0034014181	Tebuthiuron	2	77	21
0003383968	Temephos	38	0	62
0005902512	Terbacil	0	0	100
0000100210	Terephthalic acid	0	0	100
0000075650	tert-Butyl alcohol	1	55	44
0000079947	Tetrabromobisphenol A	0	0	100
0000127184	Tetrachloroethylene	6	87	7
0000961115	Tetrachlorvinphos	7	11	82
0000064755	Tetracycline hydrochloride	1	55	44
0030046312	Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-pentacosafluoro-14-iodo-	0	100	0
0000116143	Tetrafluoroethylene	0	0	100
0007696120	Tetramethrin	0	0	100
0000509148	Tetranitromethane	0	0	100
0007440280	Thallium	54	46	0
N760	Thallium compounds	54	46	0
0000148798	Thiabendazole	2	51	47
0000062555	Thioacetamide	1	55	44
0028249776	Thiobencarb	8	35	57
0097553952	Thiocyanic acid, γ-ω-perfluoro-C4-20-alkyl esters	0	100	0
0059669260	Thiodicarb	1	24	75
0068140216	Thiols, C10-20, γ-ω-perfluoro	0	100	0
0068140181	Thiols, C4-10, γ-ω-perfluoro	0	100	0
1078712885	Thiols, C4-20, γ-ω-perfluoro, telomers with acrylamide and acrylic acid, sodium salts	0	100	0
0068140205	Thiols, C6-12, γ-ω-perfluoro	0	100	0
0070969470	Thiols, C8-20, γ-ω-perfluoro, telomers with acrylamide	0	100	0
0023564069	Thiophanate-ethyl	0	0	100
0023564058	Thiophanate-methyl	1	25	74
0000079196	Thiosemicarbazide	1	55	44

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0000062566	Thiourea	1	25	74
0000137268	Thiram	1	24	75
0001314201	Thorium dioxide	90	10	0
0013463677	Titanium dioxide	0	0	100
0007550450	Titanium tetrachloride	2	98	0
0000108883	Toluene	1	23	76
0026471625	Toluene diisocyanate (mixed isomers)	2	1	97
0000584849	Toluene-2,4-diisocyanate	2	1	97
0000091087	Toluene-2,6-diisocyanate	2	1	97
0008001352	Toxaphene	62	1	37
0010061026	trans-1,3-Dichloropropene	1	31	68
0000110576	trans-1,4-Dichloro-2-butene	2	27	71
0043121433	Triadimefon	3	48	49
0002303175	Triallate	35	5	60
0000068768	Triaziquone	0	0	100
0101200480	Tribenuron-methyl	2	22	76
0001983104	Tributyltin fluoride	0	0	100
0002155706	Tributyltin methacrylate	0	0	100
0000052686	Trichlorfon	0	8	92
0000076028	Trichloroacetyl chloride	0	0	100
0000079016	Trichloroethylene	1	93	6
0000075694	Trichlorofluoromethane (CFC-11)	1	98	1
0057213691	Triclopyr-triethylammonium salt	1	25	74
0000121448	Triethylamine	1	56	43
0001582098	Trifluralin	57	3	40
0026644462	Triforine	0	0	100
0000639587	Triphenyltin chloride	0	0	100
0000076879	Triphenyltin hydroxide	14	86	0
0000126727	Tris(2,3-dibromopropyl) phosphate	0	0	100
0000072571	Trypan blue	1	55	44
0000051796	Urethane	1	55	44
0007440622	Vanadium (except when contained in an alloy)	32	68	0
N770	Vanadium compounds	32	68	0
0050471448	Vinclozolin	0	0	100
0000108054	Vinyl acetate	0	11	89
0000593602	Vinyl bromide	0	0	100
0000075014	Vinyl chloride	0	92	8
0000075025	Vinyl fluoride	0	0	100
0000075354	Vinylidene chloride	1	91	8
N874	Warfarin and salts	3	97	0
0001330207	Xylene (mixed isomers)	3	17	80
0007440666	Zinc (fume or dust)	66	34	0
N982	Zinc compounds	66	34	0
0012122677	Zineb	0	2	98