TOXICS RELEASE INVENTORY (TRI)

BASIC PLUS DATA FILES DOCUMENTATION

FILE TYPE 1B: Chemical Activities and Uses

Updated for RY 2021

August 2022

OVERVIEW OF TRI BASIC PLUS DATA FILES

The TRI "Basic Plus" data files include 10 file types that collectively contain all the data fields from the TRI Reporting Form R and Form A (except Form R Schedule 1). The 10 file types are tab-delimited text (.txt) files packaged into a .zip file.

File	Example	Description of Contents	Form R/Form A Reference
Type 1A	CA_1A_2017.txt	Facility data, chemical identification, chemical uses, on-site releases and management, off-site transfers, summary information	Part I (all), Part II (section 1, 3, 4, 5, 6.1.A, 6.2ABC, 7B, 7C, 8.2.B, 8.4.B, 8.6.

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

File Name = State + File Type + Reporting Year

For example, the file "CA_1A_2017.txt" contains facility, chemical identification, chemical use, on-site release and waste management, off-site transfer, and summary information (File Type 1A) for all facilities located in California (CA) for reporting year 2017.

In addition to the set of data files for each state, there are two other Basic Plus file sets: Federal and National. The Federal files (FED_1A_2017.txt, FED_2A_2017.txt, etc.) contain TRI data for all government-owned-and-operated federal sites. The National files (US_1A_2017.txt, US_2A_2017.txt, etc.) contain TRI data for all U.S. states and territories for a specific year.

DESCRIPTION OF FILE TYPE 1B CONTENTS

The "Type 1B" file contains data about manufacturing (including importing), processing, and otherwise use activities that occurred at the facility during the calendar year. Specifically, processing categories "as a reactant" and "as a formulation component" now contain subcategories as do all otherwise use categories (i.e., "as a chemical processing aid", "as a manufacturing aid," and "ancillary or other use").

All Type 1B files contain data from the following parts and sections of the Form R:

Form R Part	Form R Section	Description
I	1	Reporting year
I	1	Revision codes
I	2	Trade secret data
I	3	Form certification data
I	4	Facility identification information
I	5	Parent company information
II	1	Chemical identification data
II	3	Activities and uses of the toxic chemical

Note: In 2005, the TRI Program stopped collecting underground injection control (UIC) identification numbers from facilities on the TRI reporting forms. UIC IDs identify facilities that received permits from state governments to dispose of or release chemical waste into Class I through Class V underground injection wells.

The TRI Program does have some historical UIC IDs that were collected prior to 2005. Many of these, however, are outdated and inaccurate. The TRI Program is also missing UIC IDs for facilities that began reporting to TRI in or after 2005. EPA does not store nor have access to current UIC IDs. Because of this lack of current, accurate and complete data, the TRI Program removed the UIC ID data fields from the TRI Basic Data Files in 2019.

To learn more about UIC permits and underground injection wells see the "Protecting Underground Source of Drinking Water from Underground Injection (UIC)" website at https://www.epa.gov/uic

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 Plus Data: File Type 1B 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 various column headings in the data files themselves.)
Data Type	'C' for character data (alphanumeric) 'N' for numeric data 'D' for date
Description	A brief statement of what the data element represents, plus its TRI System Source (in **Table Name**. Field Name format) and where on the TRI Reporting Form R the data element is reported (i.e., *reference*). TRI System Source refers to the data element's physical location within EPA's Envirofacts online data warehouse.

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

	A	B	C	D
1	REPORTING YEAR	TRADE SECRET INDICATOR	TRIFID	FACILITY NAME
2	2016	NO	37087TSHBM1420T	NOVAMET SPECIALTY PRODUCTS
3	2016	NO	2740WNVRNM837TR	ENVIRONMENTAL AIR SYSTEMS INC-TRIAD
4	2016	NO	7585WSNDRS485HI	SANDERSON FARMS OAKWOOD FEED MILL

Example of the first columns and rows of a Basic Plus 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).

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.

FILE TYPE 1B CONTENTS

No.	Field Name	Type	Description
1	FORM TYPE	C	Indicates whether the Reporting Form R or Form A Certification Statement was submitted. R = Form R A = Form A Certification Statement *Source:* **TRI_REPORTING_FORM.**FORM_TYPE_IND *Reference:* Type of Form Used
2	REPORTING YEAR	C	The calendar year in which the reported activities occurred. *Source:* **TRI_REPORTING_FORM.**REPORTING_YEAR *Reference:* Part I, Section 1
3	TRADE SECRET INDICATOR	C	Flag indicating whether the reporting facility claims the identity of the chemical or chemical category as a trade secret. Yes = Checked (Trade Secret) No = Not checked *Note: Only sanitized trade secret submissions are stored in the TRI database.* *Source:* **TRI_REPORTING_FORM.**TRADE_SECRET_IND *Reference*: Part I, Section 2.1
4	SANITIZED INDICATOR	C	Indicates whether the reporting facility checked the 'sanitized trade secret' box on the reporting form. If yes, the form will use a generic "sanitized" chemical name. Yes = Checked (form information sanitized) No = Not checked *Source:* **TRI_REPORTING_FORM.**SANITIZED_IND *Reference*: Part I, Section 2.2
5	TITLE OF CERTIFYING OFFICIAL	C	Corporate title of the senior official certifying the accuracy and completeness of information on the submission. *Source:* **TRI_REPORTING_FORM.**CERTIF_OFFICIAL_TITLE *Reference:* Part I, Section 3
6	NAME OF CERTIFYING OFFICIAL	C	The name of the senior official certifying the accuracy and completeness of the information on the TRI form submission. *Source:* **TRI_REPORTING_FORM.**CERTIF_NAME *Reference:* Part I, Section 3
7	CERTIFYING OFFICIAL'S SIGNATURE INDICATOR	C	Indicates if and how the certifying official's signature is provided. Beginning with RY 2013, all TRI submissions (other than trade secrets) should have an electronic signature. Values: Original = ink signature on paper form Photocopy = photocopy of signature No Signature = no signature Electronic = electronic signature FDP Response = signed facility data profile Fax = signature on fax Stamp = stamped signature NA = not applicable- magnetic media submission *Source:* **TRI_REPORTING_FORM**.CERTIF_SIGNATURE *Reference:* Part I, Section 3

8	DATE SIGNED	D	The date of the certifying signature. The format is YY-MM-DD. *Source*: **TRI_REPORTING_FORM.**CERTIF_DATE_SIGNED *Reference:* Part I, Section 3
9	TRIFD	C	The unique TRI facility identification (TRIFID) number assigned to each facility for TRI reporting purposes. *NOTE: The content of this field is <u>not</u> changed to match facility ownership, or zip code changes. Rather, the TRIFD identifies a specific geographical location (also identified by the latitude and longitude of that location).* *Source:* **TRI_FACILITY.**TRI_FACILITY_ID *Reference:* Part I, Section 4.1
10	FACILITY NAME		Name of the reporting facility. *Source:* **TRI_FACILITY.**FACILITY_NAME *Reference:* Part I, Section 4.1
11	FACILITY STREET	C	Street address of the reporting facility. *Source:* **TRI_FACILITY.**STREET_ADDRESS *Reference:* Part I, Section 4.1
12	FACILITY CITY	C	City in which the reporting facility is located. *Source:* **TRI_FACILITY.**CITY_NAME *Reference:* Part I, Section 4.1
13	FACILITY COUNTY	C	County in which the reporting facility is located. *Source:* **TRI_FACILITY.**COUNTY_NAME *Reference:* Part I, Section 4.1
14	FACILITY STATE	C	Two-letter state code of the reporting facility. *Source:* **TRI_FACILITY.**STATE_ABBR *Reference:* Part I, Section 4.1
15	FACILITY ZIP CODE	C	ZIP code of the reporting facility. *Source:* **TRI_FACILITY.**ZIP_CODE *Reference:* Part I, Section 4.1
16	BIA CODE	C	Three-letter Bureau of Indian Affairs (BIA) code indicating the tribal land on which the facility is located. *Source:* **TRI_FACILITY.**BIA_TRIBAL_CODE
17	TRIBE NAME	C	Name of the tribe on whose land the reporting facility is located. *Source:* **TRI_TRIBE_DESC**.TRIBE
18	MAILING NAME	C	The first and second lines of the mailing name for the facility. *Source:* **TRI_FACILITY.** MAIL_NAME
19	MAILING STREET	C	Street address of the reporting facility's mailing address. *Source:* **TRI_FACILITY.**MAIL_STREET_ADDRESS *Reference:* Part I, Section 4.1
20	MAILING CITY	C	City name of the facility's mailing address. *Source:* **TRI_FACILITY.**MAIL_CITY *Reference:* Part I, Section 4.1
21	MAILING STATE	C	Two-letter state abbreviation of the reporting facility's mailing address. *Source:* **TRI_FACILITY.**MAIL_STATE_ABBR *Reference:* Part I, Section 4.1
22	MAILING PROVINCE	C	Province of the reporting facility's mailing address. *Source:* **TRI_FACILITY.**MAIL_PROVINCE *Reference:* Part I, Section 4.1

23	MAILING ZIP CODE	C	ZIP code of the reporting facility's mailing address. *Source:* **TRI_FACILITY.**MAIL_ZIP_CODE *Reference:* Part I, Section 4.1
24	ENTIRE FACILITY IND	C	Flag indicating whether the information covers an entire facility or part of a facility. Yes = entire No = partial *Source:* **TRI_REPORTING_FORM.**ENTIRE_FAC *Reference:* Part I, Section 4.2a
25	PARTIAL FACILITY IND	C	Flag indicating whether the information covers part of a facility or an entire facility. Yes = partial No = entire *Source:* **TRI_REPORTING_FORM.**PARTIAL_FAC *Reference:* Part I, Section 4.2b
26	FEDERAL FACILITY IND	C	Flag indicating whether the facility is federally owned and operated. Yes = federal No = non-federal *Source:* **TRI_REPORTING_FORM.**FEDERAL_FAC_IND *Reference:* Part I Section 4.2c
27	GOCO FACILITY IND	C	Flag indicating whether the facility is Government-Owned, Contractor-Operated (GOCO). Yes = GOCO No = non-GOCO *Source:* **TRI_REPORTING_FORM.**GOCO_FLAG *Reference:* Part I Section 4.2d
28	ASSIGNED FED. FACILITY FLAG	C	Flag indicating whether the facility is federally owned. Yes = federal No = non-federal *Source:* **TRI_FACILITY.** ASGN_FEDERAL *Reference*: Assigned by the TRI Program.
29	ASSIGNED PARTIAL FACILITY FLAG	C	Flag indicating if the facility is a multi-establishment facility that reports by part. Multi-establishment facilities may have more than one submission for the same chemical in one reporting year. Yes = Partial No = entire *Source:* **TRI_FACILITY**. ASGN_PARTIAL_IND *Reference:* Assigned by the TRI Program.
30	PUBLIC CONTACT NAME	C	Name of the designated individual whom the public may contact if clarification of the facility's reported data is needed. *Source:* **TRI_REPORTING_FORM.**PUBLIC_CONTACT_PERSON *Reference:* Part I, Section 4.4
31	PUBLIC CONTACT PHONE	C	Area code and telephone number of the public contact. *Source:* **TRI_REPORTING_FORM.**PUBLIC_ CONTACT_PHONE *Reference:* Part I, Section 4.4
32	PUBLIC CONTACT PHONE EXT	C	Phone extension of the public contact *Source:* **TRI_REPORTING_FORM.**PUBLIC_PHONE_EXT *Reference:* Part I, Section 4.4

33	PUBLIC CONTACT EMAIL	C	Email address of the designated individual whom the public may contact if clarification of the facility's reported data is needed. *Source:* **TRI_REPORTING_FORM.**PUBLIC_CONTACT_PERSON_EMAIL *Reference:* Part I, Section 4.4
34	PRIMARY SIC CODE	C	Primary 4-digit Standard Industrial Classification (SIC) code. *Note: SIC codes were reported by facilities from RY 1987 through 2005.* *Source:* **TRI_SUBMISSION_SIC.**SIC_CODE *Where:* primary_ind = '1' *Reference:* Part I, Section 4.5a
35	SIC CODE 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.* *Source:* **TRI_SUBMISSION_SIC.**SIC_CODE *Where:* sic_sequence_num = '2' *Reference:* Part I, Section 4.5b
36	SIC CODE 3	C	Third 4-digit Standard Industrial Classification (SIC) code entered by facility. *Note: SIC codes were reported by facilities from RY 1987 through 2005.* *Source:* **TRI_SUBMISSION_SIC.**SIC_CODE *Where:* sic_sequence_num = '3' *Reference:* Part I, Section 4.5c
37	SIC CODE 4	C	Fourth 4-digit Standard Industrial Classification (SIC) code entered by facility. *Note: SIC codes were reported by facilities from RY 1987 through 2005.* *Source:* **TRI_SUBMISSION_SIC.**SIC_CODE *Where:* sic_sequence_num = '4' *Reference:* Part I, Section 4.5d
38	SIC CODE 5	C	Fifth 4-digit Standard Industrial Classification (SIC) code entered by facility. *Note: SIC codes were reported by facilities from RY 1987 through 2005.* *Source:* **TRI_SUBMISSION_SIC.**SIC_CODE *Where:* sic_sequence_num = '5' *Reference:* Part I, Section 4.5e
39	SIC CODE 6	C	Sixth 4-digit Standard Industrial Classification (SIC) code entered by facility. *Note: SIC codes were reported by facilities from RY 1987 through 2005.* *Source:* **TRI_SUBMISSION_SIC.**SIC_CODE *Where:* sic_sequence_num = '6' *Reference:* Part I, Section 4.5f
40	NAICS ORIGIN	C	Indicates whether North American Industry Classification System (NAICS) codes were reported or assigned. R = Reported A = Assigned *Source:* **TRI_SUBMISSION_NAICS**.SOURCE *Reference:* TRI system generated

41	PRIMARY NAICS CODE	C	Primary 6-digit North American Standard Industry Classification System (NAICS) code. This represents the main business activity at the facility. See Appendix A for details. *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.* *Source:* **TRI_SUBMISSION_NAICS.**NAICS_CODE *Where:* primary_ind = '1' *Reference:* Part I, Section 4.5a
42	NAICS CODE 2		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.* *Source:* **TRI_SUBMISSION_NAICS.**NAICS_CODE *Where:* naics_sequence_num = '2' *Reference:* Part I, Section 4.5b
43	NAICS CODE 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.* *Source:* **TRI_SUBMISSION_NAICS.**NAICS_CODE *Where:* naics_sequence_num = '3' *Reference:* Part I, Section 4.5b
44	NAICS CODE 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.* *Source:* **TRI_SUBMISSION_NAICS.**NAICS_CODE *Where:* naics_sequence_num = '4' *Reference:* Part I, Section 4.5b
45	NAICS CODE 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 EPASource:* **TRI_SUBMISSION_NAICS.**NAICS_CODE *Where:* naics_sequence_num = '5' *Reference:* Part I, Section 4.5b
46	NAICS CODE 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.* *Source:* **TRI_SUBMISSION_NAICS.**NAICS_CODE *Where:* naics_sequence_num = '6' *Reference:* Part I, Section 4.5b
47	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.* *Source:* **EPA's Facility Registry System**

48	LONGITUDE	N	The longitude value that best represents the facility according to EPA's Facility Registry System (FRS). 3-digit whole number followed by 6 digits. *Note: In RY 2005, EPA stopped collecting the longitude value and began obtaining it from FRS.* *Source:* **EPA's Facility Registry System**
49	D&B NR A	C	Unique identification number assigned by Dun & Bradstreet to the reporting facility. Dun & Bradstreet is a private financial tracking and accounting firm. *Source:* **TRI_FACILITY_DB.**DB_NUM *Reference:* Part I, Section 4.7a
50	D&B NR B	C	Unique identification number assigned by Dun & Bradstreet to the reporting facility. Dun & Bradstreet is a private financial tracking and accounting firm. *Source:* **TRI_FACILITY_DB.**DB_NUM *Reference:* Part I, Section 4.7b
51	RCRA NR A	C	Twelve-digit alphanumeric site identifier assigned by EPA to the reporting facility per the Resource Conservation and Recovery Act (RCRA). *Note: In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R.* *Source:* **EPA's Facility Registry System**
52	RCRA NR B	C	Twelve-digit alphanumeric site identifier assigned by EPA to the reporting facility per the Resource Conservation and Recovery Act (RCRA). *Note: In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R.* *Source:* **EPA's Facility Registry System**
53	RCRA NR C	C	Twelve-digit alphanumeric site identifier assigned by EPA to the reporting facility per the Resource Conservation and Recovery Act (RCRA). *Note: In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R.* *Source:* **EPA's Facility Registry System**
54	RCRA NR D	C	Twelve-digit alphanumeric site identifier assigned by EPA to the reporting facility per the Resource Conservation and Recovery Act (RCRA). *Note: In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R.* *Source:* **EPA's Facility Registry System**
55	RCRA NR E	C	Twelve-digit alphanumeric site identifier assigned by EPA to the reporting facility per the Resource Conservation and Recovery Act (RCRA). *Note: In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R.* *Source:* **EPA's Facility Registry System**
56	RCRA NR F	C	Twelve-digit alphanumeric site identifier assigned by EPA to the reporting facility per the Resource Conservation and Recovery Act (RCRA). *Note: In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R.* *Source:* **EPA's Facility Registry System**

57	RCRA NR G	C	Twelve-digit alphanumeric site identifier assigned by EPA to the reporting facility per the Resource Conservation and Recovery Act (RCRA). *Note: In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R.* *Source:* **EPA's Facility Registry System**
58	RCRA NR H	C	Twelve-digit alphanumeric site identifier assigned by EPA to the reporting facility per the Resource Conservation and Recovery Act (RCRA). *Note: In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R.* *Source:* **EPA's Facility Registry System**
59	RCRA NR I	C	Twelve-digit alphanumeric site identifier assigned by EPA to the reporting facility per the Resource Conservation and Recovery Act (RCRA). *Note: In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R.* *Source:* **EPA's Facility Registry System**
60	RCRA NR J	C	Twelve-digit alphanumeric site identifier assigned by EPA to the reporting facility per the Resource Conservation and Recovery Act (RCRA). *Note: In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R.* *Source:* **EPA's Facility Registry System**
61	NPDES NR A	C	Nine-digit alphanumeric identifier assigned to a facility by EPA's National Pollutant Discharge Elimination System (NPDES) permit program. *Note: In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R.* *Source:* **EPA's Facility Registry System**
62	NPDES NR B	C	Nine-digit alphanumeric identifier assigned to a facility by EPA's National Pollutant Discharge Elimination System (NPDES) permit program. *Note: In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R.* *Source:* **EPA's Facility Registry System**
63	NPDES NR C	C	Nine-digit alphanumeric identifier assigned to a facility by EPA's National Pollutant Discharge Elimination System (NPDES) permit program. *Note: In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R.* *Source:* **EPA's Facility Registry System**
64	NPDES NR D	C	Nine-digit alphanumeric identifier assigned to a facility by EPA's National Pollutant Discharge Elimination System (NPDES) permit program. *Note: In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R.* *Source:* **EPA's Facility Registry System**
65	NPDES NR E	C	Nine-digit alphanumeric identifier assigned to a facility by EPA's National Pollutant Discharge Elimination System (NPDES) permit program. *Note: In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R.* *Source:* **EPA's Facility Registry System**

66	NPDES NR F	C	Nine-digit alphanumeric identifier assigned to a facility by EPA's National Pollutant Discharge Elimination System (NPDES) permit program. *Note: In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R.* *Source:* **EPA's Facility Registry System**
67	NPDES NR G	C	Nine-digit alphanumeric identifier assigned to a facility by EPA's National Pollutant Discharge Elimination System (NPDES) permit program. *Note: In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R.* *Source:* **EPA's Facility Registry System**
68	NPDES NR H	C	Nine-digit alphanumeric identifier assigned to a facility by EPA's National Pollutant Discharge Elimination System (NPDES) permit program. *Note: In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R.* *Source:* **EPA's Facility Registry System**
69	NPDES NR I	C	Nine-digit alphanumeric identifier assigned to a facility by EPA's National Pollutant Discharge Elimination System (NPDES) permit program. *Note: In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R.* *Source:* **EPA's Facility Registry System**
70	NPDES NR J	C	Nine-digit alphanumeric identifier assigned to a facility by EPA's National Pollutant Discharge Elimination System (NPDES) permit program. *Note: In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R.* *Source:* **EPA's Facility Registry System**
71	PARENT COMPANY NAME	C	Name of the corporation or other business entity that controls the reporting facility. *Source:* **TRI_FACILITY.**PARENT_CO_NAME *Reference:* Part I, Section 5.1
72	PARENT COMPANY D&B NR	C	Unique identification number assigned by Dun and Bradstreet to the parent company of the reporting facility. *Source:* **TRI_FACILITY.**PARENT_CO_DB_NUM *Reference:* Part I, Section 5.2
73	STANDARDIZED PARENT COMPANY NAME	C	A data field developed by EPA that is intended to best reflect the current ultimate U.S. parent company for the facility. *Source:* **TRI_FACILITY.**STANDARDIZED_PARENT_COMPANY *Reference:* Assigned by EPA
74	FRS FACILITY 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. *Source:* **TRI_FACILITY.EPA_**REGISTRY_ID

75	DOCUMENT CONTROL NUMBER	C	Unique identification number assigned to each TRI form submission. Format: TTYYNNNNNNNNN, where: TT = document type YY = reporting year NNNNNNNNN= assigned number *Source:* **TRI_REPORTING_FORM**.DOC_CTRL_NUM *Reference:* Assigned by EPA
76	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.* *Source:* **TRI_CHEM_INFO.**CAS_REGISTRY_NUMBER *Reference:* Part II, Section 1.1
77	TRI_CHEM_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.* *Source:* **TRI_REPORTING_FORM.**TRI_CHEM_ID *Reference:* Part II, Section 1.1
78	CHEMICAL NAME	C	Name of the chemical as listed on the TRI chemical list, or generic name, if the chemical is claimed as a trade secret. *Source:* **TRI_REPORTING_FORM.**CAS_CHEM_NAME *Reference:* Part II, Section 1.2 *or* Part II, Section 1.3
79	MIXTURE NAME	C	The generic term used in place of the chemical name when the supplier of the chemical is withholding the name of the TRI chemical or claiming that the chemical is a trade secret. This is generally used when the supplier of a chemical formulation wishes to keep the identity of a particular ingredient in the formulation a secret. It is only used when the supplier, not the reporting facility, is claiming the trade secret. The reporting facility will enter the chemical name as "Mixture," then supply this generic name to describe it. *Source:* **TRI_REPORTING_FORM.**MIXTURE_NAME *Reference:* Part II, Section 2.1
80	ELEMENTAL METAL INCLUDED	C	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 *Source:* **TRI_REPORTING_FORM.**ELEMENTAL_METAL_INCLUDED *Reference:* Part II, Section 1.2

81	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 *Source:* **TRI_CHEM_INFO.**CLASSIFICATION *Reference:* NONE
82	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} *Source:* **TRI_CHEM_INFO.**UNIT_OF_MEASURE *Reference:* NONE
83	CAAC_IND	C	Flag indicating whether the chemical is listed as a hazardous air pollutant under the Clean Air Act. Yes = CAAC No = Non-CAAC See "Appendix B: Chemical Classifications – CAAC" for a list of TRI chemicals that are designated hazardous air pollutants under the Clean Air Act. *Source:* **TRI_CHEM_INFO.**CAAC_IND
84	CARC_IND	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. *Source:* **TRI_CHEM_INFO.**CARC_IND
85	PFAS_IND	C	Flag indicating whether the chemical is a per- and polyfluoroalkyl substance (PFAS) Yes = PFAS No = non-PFAS See "Appendix B: Chemical Classifications – PFAS" for a list of PFAS on the TRI chemical list. *Source:* **TRI_CHEM_INFO.**PFAS_IND
86	METAL_IND	C	Flag indicating whether the chemical is a metal with TRI reporting restrictions. Yes = Metal with reporting restrictions No = TRI chemical without reporting restrictions See "Appendix B: Chemical Classifications – Metals" for a list of metals on the TRI chemical list. *Source:* **TRI_CHEM_INFO.**Metal_Ind
87	REVISION CODE 1	C	If the facility revises its original TRI reporting form for a chemical, the facility indicates the reason using revision codes. This is an 'RR' followed by a single digit. This data element was collected beginning in RY 2007. Values: RR1 = New Monitoring Data RR2 = New Emission Factors RR3 = New Chemical Concentration Data RR4 = Recalculation(s)

			RR5 = Other Reason(s) *Source:* **TRI_REPORTING_FORM.**Revision_Code_
88	REVISION CODE 2	C	If the facility revises its original TRI reporting form for a chemical, the facility indicates the reason using revision codes. This is an 'RR' followed by a single digit. This data element was collected beginning in RY 2007. Values: RR1 = New Monitoring Data RR2 = New Emission Factors RR3 = New Chemical Concentration Data RR4 = Recalculation(s) RR5 = Other Reason(s) *Source:* **TRI_REPORTING_FORM.**Revision_Code_
89	PRODUCE THE CHEMICAL	C	Flag indicating if the chemical is produced at this facility. Yes = produced here No = not produced here *Source:* **TRI_CHEM_ACTIVITY.**PRODUCE *Reference:* Part II, Section 3.1a
90	IMPORT THE CHEMICAL	C	Flag indicating if the chemical is imported at this facility. Yes = imported No = not imported *Source:* **TRI_CHEM_ACTIVITY.**IMPORTED *Reference:* Part II, Section 3.1b
91	ON-SITE USE OF THE CHEMICAL	C	Flag indicating if the chemical is produced or imported by the facility and then further processed or otherwise used at the same facility. Yes = used on site No= not used on site *Source:* **TRI_CHEM_ACTIVITY.**USED_PROCESSED *Reference:* Part II, Section 3.1c
92	SALE OR DISTRIBUTION OF THE CHEMICAL	C	Flag indicating whether the chemical is produced or imported at this facility for sale or distribution. Yes = imported for sale No = not imported for sale *Source:* **TRI_CHEM_ACTIVITY.**SALE_DISTRIBUTION *Reference:* Part II, Section 3.1d
93	AS A BYPRODUCT	C	Flag indicating whether the chemical is produced or imported at this facility as a byproduct. Yes = byproduct No = not byproduct *Source:* **TRI_CHEM_ACTIVITY.**BYPRODUCT *Reference:* Part II, Section 3.1e
94	AS A MANUFACTURED IMPURITY	C	Flag indicating whether the chemical is produced or imported at this facility as an impurity. Yes = impurity No = not impurity *Source:* **TRI_CHEM_ACTIVITY.**MANUFACTURE_IMPURITY *Reference:* Part II, Section 3.1f
95	USED AS A REACTANT	C	Flag indicating whether the chemical is used at this facility as a reactant. Yes = reactant No = not reactant *Source:* **TRI_CHEM_ACTIVITY.**REACTANT *Reference:* Part II, Section 3.2a

96	P101 - FEEDSTOCKS	C	Flag indicating that the reported chemical was used in chemical reactions to create another chemical substance or product, with the specified sub-use of "**P101**: **Feedstocks**." This code was added in RY 2018. Values: YES = used as a feedstock NO = not used as a feedstock *Source:* **TRI_FORMACTIVITY_SUBUSE.**TRI_CODE_DESC *Where:* ACTIVITY_SUBUSE_CODE = 'P101' *Reference:* Part II, Section 3.2a
97	P102 - RAW MATERIALS	C	Flag indicating that the reported chemical was used in chemical reactions to create another chemical substance or product, with the specified sub-use of "**P102: Raw Materials**." This code was added in RY 2018. Values: YES = used as a raw material NO = not used as a raw material *Source:* **TRI_FORMACTIVITY_SUBUSE.**TRI_CODE_DESC *Where:* ACTIVITY_SUBUSE_CODE = 'P102' *Reference:* Part II, Section 3.2a
98	P103 - INTERMEDIATES	C	Flag indicating that the reported chemical was used in chemical reactions to create another chemical substance or product, with the specified sub-use of "**P103: Intermediates**." This code was added in RY 2018. Values: YES = used as an intermediate NO = not used as an intermediate *Source:* **TRI_FORMACTIVITY_SUBUSE.**TRI_CODE_DESC *Where:* ACTIVITY_SUBUSE_CODE = 'P103' *Reference:* Part II, Section 3.2a
99	P104 – INITIATORS	C	Flag indicating that the reported chemical was used in chemical reactions to create another chemical substance or product, with the specified sub-use of "**P104: Initiators.**" This code was added in RY 2018. Values: YES = used as an initiator NO = not used as an initiator *Source:* **TRI_FORMACTIVITY_SUBUSE.**TRI_CODE_DESC *Where:* ACTIVITY_SUBUSE_CODE = 'P104' *Reference:* Part II, Section 3.2a
100	P199 - OTHER	C	Flag indicating that the reported chemical was used in chemical reactions to create another chemical substance or product, with the specified sub-use of "**P199: Other**." This code was added in RY 2018. Values: YES = used in another way not covered by other sub-use codes NO = not used in another way *Source:* **TRI_FORMACTIVITY_SUBUSE.**TRI_CODE_DESC *Where:* ACTIVITY_SUBUSE_CODE = 'P199' *Reference:* Part II, Section 3.2a
101	ADDED AS A FORMULATION COMPONENT	C	Flag indicating whether the facility adds the reported chemical to a product or product mixture prior to further distribution of the product to act as a performance enhancer during the use of the product. Yes = formulation component No = not formulation component *Source:* **TRI_CHEM_ACTIVITY.**FORMULATION_COMPONENT *Reference:* Part II, Section 3.2b

102	P201 - ADDITIVES	C	Flag indicating that the reported chemical was added to a product (or product mixture) prior to further distribution of that product to act as a performance enhancer during use of the product, with the specified sub-use of "**P201: Additives**." This code was added in RY 2018. Values: YES = used as an additive NO = not used as an additive *Source:* **TRI_FORMACTIVITY_SUBUSE.**TRI_CODE_DESC *Where:* ACTIVITY_SUBUSE_CODE = 'P201' *Reference:* Part II, Section 3.2b
103	P202 – DYES	C	Flag indicating that the reported chemical was added to a product (or product mixture) prior to further distribution of that product to act as a performance enhancer during use of the product, with the specified sub-use of "**P202: Dyes**." This code was added in RY 2018. Values: YES = used as a dye NO = not used as a dye *Source:* **TRI_FORMACTIVITY_SUBUSE.**TRI_CODE_DESC *Where:* ACTIVITY_SUBUSE_CODE = 'P202' *Reference:* Part II, Section 3.2b
104	P203 – REACTION DILUENTS	C	Flag indicating that the reported chemical was added to a product (or product mixture) prior to further distribution of that product to act as a performance enhancer during use of the product, with the specified sub-use of "**P203: Reaction Diluents**." This code was added in RY 2018. Values: YES = used as a reaction diluent NO = not used as a reaction diluent *Source:* **TRI_FORMACTIVITY_SUBUSE.**TRI_CODE_DESC *Where:* ACTIVITY_SUBUSE_CODE = 'P203' *Reference:* Part II, Section 3.2b
105	P204 – INITIATORS	C	Flag indicating that the reported chemical was added to a product (or product mixture) prior to further distribution of that product to act as a performance enhancer during use of the product, with the specified sub-use of "**P204: Initiators**." This code was added in RY 2018. Values: YES = used as an initiator NO = not used as an initiator *Source:* **TRI_FORMACTIVITY_SUBUSE.**TRI_CODE_DESC *Where:* ACTIVITY_SUBUSE_CODE = 'P204' *Reference:* Part II, Section 3.2b
106	P205 – SOLVENTS	C	Flag indicating that the reported chemical was added to a product (or product mixture) prior to further distribution of that product to act as a performance enhancer during use of the product, with the specified sub-use of "**P205: Solvents**." This code was added in RY 2018. Values: YES = used as a solvent NO = not used as a solvent *Source:* **TRI_FORMACTIVITY_SUBUSE.**TRI_CODE_DESC *Where:* ACTIVITY_SUBUSE_CODE = 'P205' *Reference:* Part II, Section 3.2b

107	P206 – INHIBITORS	C	Flag indicating that the reported chemical was added to a product (or product mixture) prior to further distribution of that product to act as a performance enhancer during use of the product, with the specified sub-use of "**P206: Inhibitors**." This code was added in RY 2018. Values: YES = used as an inhibitor NO = not used as an inhibitor *Source:* **TRI_FORMACTIVITY_SUBUSE.**TRI_CODE_DESC *Where:* ACTIVITY_SUBUSE_CODE = 'P206' *Reference:* Part II, Section 3.2b
108	P207 – EMULSIFIERS	C	Flag indicating that the reported chemical was added to a product (or product mixture) prior to further distribution of that product to act as a performance enhancer during use of the product, with the specified sub-use of "**P207: Emulsifiers**." This code was added in RY 2018. Values: YES = used as an emulsifier NO = not used as an emulsifier *Source:* **TRI_FORMACTIVITY_SUBUSE.**TRI_CODE_DESC *Where:* ACTIVITY_SUBUSE_CODE = 'P207' *Reference:* Part II, Section 3.2b
109	P208 – SURFACTANTS	C	Flag indicating that the reported chemical was added to a product (or product mixture) prior to further distribution of that product to act as a performance enhancer during use of the product, with the specified sub-use of "**P208: Surfactants**." This code was added in RY 2018. Values: YES = used as a surfactant NO = not used as a surfactant *Source:* **TRI_FORMACTIVITY_SUBUSE.**TRI_CODE_DESC *Where:* ACTIVITY_SUBUSE_CODE = 'P208' *Reference:* Part II, Section 3.2b
110	P209 – LUBRICANTS	C	Flag indicating that the reported chemical was added to a product (or product mixture) prior to further distribution of that product to act as a performance enhancer during use of the product, with the specified sub-use of "**P209: Lubricants**." This code was added in RY 2018. Values: YES = used as a lubricant NO = not used as a lubricant *Source:* **TRI_FORMACTIVITY_SUBUSE.**TRI_CODE_DESC *Where:* ACTIVITY_SUBUSE_CODE = 'P209' *Reference:* Part II, Section 3.2b
111	P210 – FLAME RETARDANTS	C	Flag indicating that the reported chemical was added to a product (or product mixture) prior to further distribution of that product to act as a performance enhancer during use of the product, with the specified sub-use of "**P210: Flame Retardants.**" This code was added in RY 2018. Values: YES = used as a flame retardant NO = not used as a flame retardant *Source:* **TRI_FORMACTIVITY_SUBUSE.**TRI_CODE_DESC *Where:* ACTIVITY_SUBUSE_CODE = 'P210' *Reference:* Part II, Section 3.2b

112	P211 – RHEOLOGICAL MODIFIERS	C	Flag indicating that the reported chemical was added to a product (or product mixture) prior to further distribution of that product to act as a performance enhancer during use of the product, with the specified sub-use of "**P211: Rheological Modifiers**." This code was added in RY 2018. Values: YES = used as a rheological modifier NO = not used as a rheological modifier *Source:* **TRI_FORMACTIVITY_SUBUSE.**TRI_CODE_DESC *Where:* ACTIVITY_SUBUSE_CODE = 'P211' *Reference:* Part II, Section 3.2b
113	P299 – OTHER	C	Flag indicating that the reported chemical was added to a product (or product mixture) prior to further distribution of that product to act as a performance enhancer during use of the product, with the specified sub-use of "**P299: Other**." This code was added in RY 2018. Values: YES = used in way not covered by other sub-use codes NO = not used in another way *Source:* **TRI_FORMACTIVITY_SUBUSE.**TRI_CODE_DESC *Where:* ACTIVITY_SUBUSE_CODE = 'P299' *Reference:* Part II, Section 3.2b
114	USED AS AN ARTICLE COMPONENT	C	Flag indicating whether the facility uses the reported chemical as an integral component of an article distributed for industrial, trade, or consumer use. Yes = integral component of an article No = not integral component of an article *Source:* **TRI_CHEM_ACTIVITY.**ARTICLE_COMPONENT *Reference:* Part II, Section 3.2c
115	REPACKAGING	C	Flag indicating whether the chemical is processed at this facility for distribution in commerce in a different state, or quantity. Yes = repackaged No = not repackaged *Source:* **TRI_CHEM_ACTIVITY.**REPACKAGING *Reference:* Part II, Section 3.2d
116	AS A PROCESS IMPURITY	C	Flag indicating whether the facility processed the reported chemical but did not separate it and it remains as an impurity in the mixture or trade name product. Yes = process impurity No = not a process impurity *Source:* **TRI_CHEM_ACTIVITY.**PROCESS_IMPURITY *Reference:* Part II, Section 3.2e
117	PROCESSED - RECYCLING	C	Flag indicating that the reported chemical was recycled as part of processing at the facility. Values: Yes = recycled No = not recycled *Source:* **TRI_CHEM_ACTIVITY.**PROCESSED_RECYCLING *Reference:* Part II, Section 3.2f

118	USED AS A CHEMICAL PROCESSING AID	C	Flag indicating whether the chemical is used at this facility as a chemical processing aid by adding the chemical to a reaction mixture to aid in the manufacture or synthesis of another chemical substance without intending for it to remain as a part of the mixture. Yes = processing aid No = not a processing aid *Source:* **TRI_CHEM_ACTIVITY.**CHEM_PROCESSING_AID *Reference:* Part II, Section 3.3a
119	Z101 – PROCESS SOLVENTS	C	Flag indicating that the reported chemical was added to a reaction mixture or synthesis of another chemical substance, without intending it to remain in or become part of the mixture, with a specified sub-use of "**Z101: Process Solvents**." This code was added in RY 2018. Values: YES = used as a process solvent NO = not used as a process solvent *Source:* **TRI_FORMACTIVITY_SUBUSE.**TRI_CODE_DESC *Where:* ACTIVITY_SUBUSE_CODE = 'Z101' *Reference:* Part II, Section 3.3a
120	Z102 – CATALYSTS	C	Flag indicating that the reported chemical was added to a reaction mixture or synthesis of another chemical substance, without intending it to remain in or become part of the mixture, with a specified sub-use of "**Z102: Catalysts**." This code was added in RY 2018. Values: YES = used as a catalyst NO = not used as a catalyst *Source:* **TRI_FORMACTIVITY_SUBUSE.**TRI_CODE_DESC *Where:* ACTIVITY_SUBUSE_CODE = 'Z102' *Reference:* Part II, Section 3.3a
121	Z103 – INHIBITORS	C	Flag indicating that the reported chemical was added to a reaction mixture or synthesis of another chemical substance, without intending it to remain in or become part of the mixture, with a specified sub-use of "**Z103: Inhibitors**." This code was added in RY 2018. Values: YES = used as an inhibitor NO = not used as an inhibitor *Source:* **TRI_FORMACTIVITY_SUBUSE.**TRI_CODE_DESC *Where:* ACTIVITY_SUBUSE_CODE = 'Z103' *Reference:* Part II, Section 3.3a
122	Z104 – INITIATORS	C	Flag indicating that the reported chemical was added to a reaction mixture or synthesis of another chemical substance, without intending it to remain in or become part of the mixture, with a specified sub-use of "**Z104: Initiators**." This code was added in RY 2018. Values: YES = used as an initiator NO = not used as an initiator *Source:* **TRI_FORMACTIVITY_SUBUSE.**TRI_CODE_DESC *Where:* ACTIVITY_SUBUSE_CODE = 'Z104' *Reference:* Part II, Section 3.3a

123	Z105 – REACTION TERMINATORS	C	Flag indicating that the reported chemical was added to a reaction mixture or synthesis of another chemical substance, without intending it to remain in or become part of the mixture, with a specified sub-use of "**Z105: Reaction Terminators**." This code was added in RY 2018. Values: YES = used as a reaction terminator NO = not used as a reaction terminator *Source:* **TRI_FORMACTIVITY_SUBUSE.**TRI_CODE_DESC *Where:* ACTIVITY_SUBUSE_CODE = 'Z105' *Reference:* Part II, Section 3.3a
124	Z106 – SOLUTION BUFFERS	C	Flag indicating that the reported chemical was added to a reaction mixture or synthesis of another chemical substance, without intending it to remain in or become part of the mixture, with a specified sub-use of "**Z106: Solution Buffers**." This code was added in RY 2018. Values: YES = used as a solution buffer NO = not used as a solution buffer *Source:* **TRI_FORMACTIVITY_SUBUSE.**TRI_CODE_DESC *Where:* ACTIVITY_SUBUSE_CODE = 'Z106' *Reference:* Part II, Section 3.3a
125	Z199 – OTHER	C	Flag indicating that the reported chemical was added to a reaction mixture or synthesis of another chemical substance, without intending it to remain in or become part of the mixture, with a specified sub-use of "**Z199: Other**." This code was added in RY 2018. Values: YES = used in way not covered by other sub-use codes NO = not used in another way *Source:* **TRI_FORMACTIVITY_SUBUSE.**TRI_CODE_DESC *Where:* ACTIVITY_SUBUSE_CODE = 'Z199' *Reference:* Part II, Section 3.3a
126	USED AS A MANUFACTURING AID	C	Flag indicating whether the chemical is used at this facility to aid the manufacturing process, without intending for it to be part of the resulting product or the reaction mixture, during the manufacture or synthesis of another chemical substance. Yes = manufacturing aid No = not a manufacturing aid *Source:* **TRI_CHEM_ACTIVITY.**MANUFACTURE *Reference:* Part II, Section 3.3b
127	Z201 – PROCESS LUBRICANTS	C	Flag indicating that the reported chemical was used to aid the manufacturing process, without intending it to become part of the resulting product or the reaction mixture, with a specified sub-use of "**Z201: Process Lubricants**." This code was added in RY 2018. Values: YES = used as a process lubricant NO = not used as a process lubricant *Source:* **TRI_FORMACTIVITY_SUBUSE.**TRI_CODE_DESC *Where:* ACTIVITY_SUBUSE_CODE = 'Z201' *Reference:* Part II, Section 3.3b

128	Z202 – METALWORKING FLUIDS	C	Flag indicating that the reported chemical was used to aid the manufacturing process, without intending it to become part of the resulting product or the reaction mixture, with a specified sub-use of "**Z202: Metalworking Fluids**." This code was added in RY 2018. Values: YES = used as a metalworking fluid NO = not used as a metalworking fluid *Source:* **TRI_FORMACTIVITY_SUBUSE.**TRI_CODE_DESC *Where:* ACTIVITY_SUBUSE_CODE = 'Z202' *Reference:* Part II, Section 3.3b
129	Z203 – COOLANTS	C	Flag indicating that the reported chemical was used to aid the manufacturing process, without intending it to become part of the resulting product or the reaction mixture, with a specified sub-use of "**Z203: Coolants**." This code was added in RY 2018. Values: YES = used as a coolant NO = not used as a coolant *Source:* **TRI_FORMACTIVITY_SUBUSE.**TRI_CODE_DESC *Where:* ACTIVITY_SUBUSE_CODE = 'Z203' *Reference:* Part II, Section 3.3b
130	Z204 – REFRIGERANTS	C	Flag indicating that the reported chemical was used to aid the manufacturing process, without intending it to become part of the resulting product or the reaction mixture, with a specified sub-use of "**Z204: Refrigerants**." This code was added in RY 2018. Values: YES = used as a refrigerant NO = not used as a refrigerant *Source:* **TRI_FORMACTIVITY_SUBUSE.**TRI_CODE_DESC *Where:* ACTIVITY_SUBUSE_CODE = 'Z204' *Reference:* Part II, Section 3.3b
131	Z205 – HYDRAULIC FLUIDS	C	Flag indicating that the reported chemical was used to aid the manufacturing process, without intending it to become part of the resulting product or the reaction mixture, with a specified sub-use of "**Z205: Hydraulic Fluids**." This code was added in RY 2018. Values: YES = used as a hydraulic fluid NO = not used as a hydraulic fluid *Source:* **TRI_FORMACTIVITY_SUBUSE.**TRI_CODE_DESC *Where:* ACTIVITY_SUBUSE_CODE = 'Z205' *Reference:* Part II, Section 3.3b
132	Z299 – OTHER	C	Flag indicating that the reported chemical was used to aid the manufacturing process, without intending it to become part of the resulting product or the reaction mixture, with a specified sub-use of "**Z299: Other**." This code was added in RY 2018. Values: YES = used in a way not covered by other sub-use codes NO = not used in another way *Source:* **TRI_FORMACTIVITY_SUBUSE.**TRI_CODE_DESC *Where:* ACTIVITY_SUBUSE_CODE = 'Z299' *Reference:* Part II, Section 3.3b

133	ANCILLARY OR OTHER USE	C	Flag indicating whether the chemical is used at this facility for purposes other than aiding chemical processing or manufacturing. Includes, but not limited to, cleaners, degreasers, lubricants, fuels, and chemicals used for treating wastes. Yes = for ancillary or other use No = not for ancillary or other use *Source:* **TRI_CHEM_ACTIVITY.**ANCILLARY *Reference:* Part II, Section 3.3c
134	Z301 – CLEANER	C	Flag indicating that the reported chemical was used for purposes other than aiding chemical processing or manufacturing, with a specified sub-use of "**Z301: Cleaner."** This code was added in RY 2018. Values: YES = used as a cleaner NO = not used as a cleaner *Source:* **TRI_FORMACTIVITY_SUBUSE.**TRI_CODE_DESC *Where:* ACTIVITY_SUBUSE_CODE = 'Z301' *Reference:* Part II, Section 3.3c
135	Z302 – DEGREASER	C	Flag indicating that the reported chemical was used for purposes other than aiding chemical processing or manufacturing, with a specified sub-use of "**Z302: Degreaser."** This code was added in RY 2018. Values: YES = used as a degreaser NO = not used as a degreaser *Source:* **TRI_FORMACTIVITY_SUBUSE.**TRI_CODE_DESC *Where:* ACTIVITY_SUBUSE_CODE = 'Z302' *Reference:* Part II, Section 3.3c
136	Z303 – LUBRICANT	C	Flag indicating that the reported chemical was used for purposes other than aiding chemical processing or manufacturing, with a specified sub-use of "**Z303: Lubricant."** This code was added in RY 2018. Values: YES = used as a lubricant NO = not used as a lubricant *Source:* **TRI_FORMACTIVITY_SUBUSE.**TRI_CODE_DESC *Where:* ACTIVITY_SUBUSE_CODE = 'Z303' *Reference:* Part II, Section 3.3c
137	Z304 – FUEL	C	Flag indicating that the reported chemical was used for purposes other than aiding chemical processing or manufacturing, with a specified sub-use of "**Z304: Fuel."** This code was added in RY 2018. Values: YES = used as a fuel NO = not used as a fuel *Source:* **TRI_FORMACTIVITY_SUBUSE.**TRI_CODE_DESC *Where:* ACTIVITY_SUBUSE_CODE = 'Z304' *Reference:* Part II, Section 3.3c
138	Z305 – FLAME RETARDANT	C	Flag indicating that the reported chemical was used for purposes other than aiding chemical processing or manufacturing, with a specified sub-use of "**Z305: Flame Retardant."** This code was added in RY 2018. Values: YES = used as a flame retardant NO = not used as a flame retardant *Source:* **TRI_FORMACTIVITY_SUBUSE.**TRI_CODE_DESC *Where:* ACTIVITY_SUBUSE_CODE = 'Z305' *Reference:* Part II, Section 3.3c

139	Z306 – WASTE TREATMENT	C	Flag indicating that the reported chemical was used for purposes other than aiding chemical processing or manufacturing, with a specified sub-use of "**Z306: Waste Treatment."** This code was added in RY 2018. Values: YES = used in waste treatment NO = not used in waste treatment *Source:* **TRI_FORMACTIVITY_SUBUSE.**TRI_CODE_DESC *Where:* ACTIVITY_SUBUSE_CODE = 'Z306' *Reference:* Part II, Section 3.3c
140	Z307 – WATER TREATMENT	C	Flag indicating that the reported chemical was used for purposes other than aiding chemical processing or manufacturing, with a specified sub-use of "**Z307: Water Treatment."** This code was added in RY 2018. Values: YES = used in water treatment NO = not used in water treatment *Source:* **TRI_FORMACTIVITY_SUBUSE.**TRI_CODE_DESC *Where:* ACTIVITY_SUBUSE_CODE = 'Z307' *Reference:* Part II, Section 3.3c
141	Z308 – CONSTRUCTION MATERIALS	C	Flag indicating that the reported chemical was used for purposes other than aiding chemical processing or manufacturing, with a specified sub-use of "**Z308: Construction Materials."** This code was added in RY 2018. Values: YES = used as construction materials NO = not used as construction materials *Source:* **TRI_FORMACTIVITY_SUBUSE.**TRI_CODE_DESC *Where:* ACTIVITY_SUBUSE_CODE = 'Z308' *Reference:* Part II, Section 3.3c
142	Z399 – OTHER	C	Flag indicating that the reported chemical was used for purposes other than aiding chemical processing or manufacturing, with a specified sub-use of "**Z399: Other."** This code was added in RY 2018. Values: YES = used in another way not covered by other sub-use codes NO = not used in another way *Source:* **TRI_FORMACTIVITY_SUBUSE.**TRI_CODE_DESC *Where:* ACTIVITY_SUBUSE_CODE = 'Z399' *Reference:* Part II, Section 3.3c

APPENDIX A: 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: This method was used to assign 50% of all NAICS codes. 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 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 B: Chemical Classifications

TRI Chemicals Classified as Hazardous Air Pollutants Under the Clean Air Act:

- https://www.epa.gov/epcra/consolidated-list-lists-under-epcracerclacaa-ss112r-april-2022-version

TRI Chemicals Classified as OSHA Carcinogens:

- www.epa.gov/sites/default/files/2019-11/documents/osha_carcinogen_basis_november_2019_update.pdf

TRI Chemicals Classified as Metals:

- https://ordspub.epa.gov/ords/guideme_ext/f?p=guideme:chemical-list-advanced-search:0

TRI Chemicals Classified as per- and polyfluoroalkyl substances (PFAS):

- www.epa.gov/toxics-release-inventory-tri-program/list-pfas-added-tri-ndaa

TRI Chemicals Classified as **Persistent Bioaccumulative Toxic Chemicals (PBTs):**

- www.epa.gov/toxics-release-inventory-tri-program/persistent-bioaccumulative-toxic-pbt-chemicals-covered-tri