TOXICS RELEASE INVENTORY (TRI)

BASIC PLUS DATA FILES DOCUMENTATION

FILE TYPE 1B: Chemical Activities and Uses

Updated for RY 2019

September 2020

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	Indicates whether the reporting facility claims the identity of the chemical or chemical category as a trade secret. Yes = Checked (Trade Secret) No = Not checked Note: Only sanitized trade secret submissions are stored in the TRI database. *Source:* **TRI_REPORTING_FORM.**TRADE_SECRET_IND *Reference*: Part I, Section 2.1
4	SANITIZED INDICATOR	C	Indicates whether the reporting facility has sanitized trade secret information. 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	The corporate title of 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 submission. *Source:* **TRI_REPORTING_FORM.**CERTIF_NAME *Reference:* Part I, Section 3
7	CERTIFYING OFFICIAL'S SIGNATURE INDICATOR	C	Indicates whether the certifying official's signature is provided. Possible values are: Original = original signature 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	TRI facility identification in the format zzzzznnnnnsssss,where usually

No.	Field Name	Type	Description
			zzzzz = facility zip code, nnnnn = first five consonants of the name, and sssss = first five non-specific characters in the street address. The three sections of the format were separated by hyphens prior to RY 2006. **NOTE:** *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.* *Source:* **TRI_FACILITY.**TRI_FACILITY_ID *Reference:* Part I, Section 4.1
10	FACILITY NAME	C	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 the facility is on. *Source:* **TRI_FACILITY.**BIA_TRIBAL_CODE
17	TRIBE NAME	C	The name of the Tribe. *Source:* **V_INDIAN_COUNTRY.**
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	State 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

No.	Field Name	Type	Description
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	Indicates 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	Indicates whether the information covers an entire facility or part of a facility. Yes = partial No = entire *Source:* **TRI_REPORTING_FORM.**PARTIAL_FAC *Reference:* Part I, Section 4.2b
26	FEDERAL FACILITY IND	C	Code indicating whether a facility is a federal facility or not. Reported by the facility. Yes = Federal No = non-Federal Value *Source:* **TRI_REPORTING_FORM.**FEDERAL_FAC_IND *Reference:* Part I Section 4.2c
27	GOCO FACILITY IND	C	Code indicating whether a facility is GOCO (Government- Owned, Contractor-Operated) facility or not: Yes = GOCO No = non-GOCO *Source:* **TRI_REPORTING_FORM.**GOCO_FLAG *Reference:* Part I Section 4.2d
28	ASSIGNED FED. FACILITY FLAG	C	Code indicating whether the facility is federally owned or not. Assigned by TRI. Yes = Federal No = Non-Federal *Reference:* **TRI_FACILITY.** ASGN_FEDERAL
29	ASSIGNED PARTIAL FACILITY FLAG	C	Code indicating whether the facility is a multi-establishment and reports by part. Assigned by TRI. 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
30	PUBLIC CONTACT NAME	C	Name of the individual whom the public may contact if clarification of 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

No.	Field Name	Type	Description
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 four-digit Standard Industrial Classification (SIC) code. SIC codes 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 four-digit Standard Industrial Classification (SIC) code entered by facility. SIC codes 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 four-digit Standard Industrial Classification (SIC) code entered by facility. SIC codes 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 four-digit Standard Industrial Classification (SIC) code entered by facility. SIC codes 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 four-digit Standard Industrial Classification (SIC) code entered by facility. SIC codes 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 four-digit Standard Industrial Classification (SIC) code entered by facility. SIC codes 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
41	PRIMARY NAICS CODE	C	Primary six-digit North American Standard Industry Classification System (NAICS) code. NAICS codes reported by facilities from RY 2006 to present. NAICS codes in prior years were assigned by EPA. See Appendix B – "NAICS Codes Assignments" for more details. *Source:* **TRI_SUBMISSION_NAICS.**NAICS_CODE *Where:* primary_ind = '1' *Reference:* Part I, Section 4.5a
42	NAICS CODE 2	C	Second six-digit North American Standard Industry Classification

No.	Field Name	Type	Description
			System (NAICS) code entered by facility. NAICS codes reported by facilities from RY 2006 to present. NAICS codes in prior years 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 six-digit North American Standard Industry Classification System (NAICS) code entered by facility. NAICS codes reported by facilities from RY 2006 to present. NAICS codes in prior years 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	Forth six-digit North American Standard Industry Classification System (NAICS) code entered by facility. NAICS codes reported by facilities from RY 2006 to present. NAICS codes in prior years 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 six-digit North American Standard Industry Classification System (NAICS) code entered by facility. NAICS codes reported by facilities from RY 2006 to present. NAICS codes in prior years were assigned by EPA. *Source:* **TRI_SUBMISSION_NAICS.**NAICS_CODE *Where:* naics_sequence_num = '5' *Reference:* Part I, Section 4.5b
46	NAICS CODE 6	C	Sixth six-digit North American Standard Industry Classification System (NAICS) code entered by facility. NAICS codes reported by facilities from RY 2006 to present. NAICS codes in prior years 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). In RY 2005, EPA stopped collecting the latitude value and began obtaining it from FRS. Format: signed 2-digit whole number, 6 digit decimal positions (+nn.nnnnnn). *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). In 2005, TRI stopped collecting the longitude value and began obtaining it from FRS. Format: signed 3-digit whole number, 6 digit decimal positions (+nnn.nnnnnn). *Source:* **EPA's Facility Registry System**
49	D&B NR A	C	Unique identification number assigned by Dun and Bradstreet to the reporting facility. *Source:* **TRI_FACILITY_DB.**DB_NUM *Reference:* Part I, Section 4.7a
50	D&B NR B	C	Unique identification number assigned by Dun and Bradstreet to

No.	Field Name	Type	Description
			the reporting facility. *Source:* **TRI_FACILITY_DB.**DB_NUM *Reference:* Part I, Section 4.7b
51	RCRA NR A	C	Twelve-digit alphanumeric identifier assigned by EPA per the Resource Conservation and Recovery Act (RCRA). In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R. *Source:* **EPA's Facility Registry System**
52	RCRA NR B	C	Twelve-digit alphanumeric identifier assigned by EPA per the Resource Conservation and Recovery Act (RCRA). In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R. *Source:* **EPA's Facility Registry System**
53	RCRA NR C	C	Twelve-digit alphanumeric identifier assigned by EPA per the Resource Conservation and Recovery Act (RCRA). 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 identifier assigned by EPA per the Resource Conservation and Recovery Act (RCRA). 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 identifier assigned by EPA per the Resource Conservation and Recovery Act (RCRA). 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 identifier assigned by EPA per the Resource Conservation and Recovery Act (RCRA). 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 identifier assigned by EPA per the Resource Conservation and Recovery Act (RCRA). 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 identifier assigned by EPA per the Resource Conservation and Recovery Act (RCRA). 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 identifier assigned by EPA per the Resource Conservation and Recovery Act (RCRA). 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 identifier assigned by EPA per the Resource Conservation and Recovery Act (RCRA). 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 in EPA's National Pollutant Discharge Elimination System (NPDES). In RY 2005, TRI stopped collecting NPDES IDs on the Reporting Form R. *Source:* **EPA's Facility Registry System**

No.	Field Name	Type	Description
62	NPDES NR B	C	Nine-digit alphanumeric identifier assigned to a facility in EPA's National Pollutant Discharge Elimination System (NPDES). In RY 2005, TRI stopped collecting NPDES 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 in EPA's National Pollutant Discharge Elimination System (NPDES). In RY 2005, TRI stopped collecting NPDES 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 in EPA's National Pollutant Discharge Elimination System (NPDES). In RY 2005, TRI stopped collecting NPDES 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 in EPA's National Pollutant Discharge Elimination System (NPDES). In RY 2005, TRI stopped collecting NPDES 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 in EPA's National Pollutant Discharge Elimination System (NPDES). In RY 2005, TRI stopped collecting NPDES 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 in EPA's National Pollutant Discharge Elimination System (NPDES). In RY 2005, TRI stopped collecting NPDES 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 in EPA's National Pollutant Discharge Elimination System (NPDES). In RY 2005, TRI stopped collecting NPDES 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 in EPA's National Pollutant Discharge Elimination System (NPDES). In RY 2005, TRI stopped collecting NPDES 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 in EPA's National Pollutant Discharge Elimination System (NPDES). In RY 2005, TRI stopped collecting NPDES 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	Standardized Parent Company Name assigned by TRI. Source: **TRI_FACILITY.**STANDARDIZED_PARENT_COMPANY

No.	Field Name	Type	Description
74	FRS FACILITY ID	C	Indicates the Facility Registry Service (FRS) ID for 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 submission by EPA. Format: TTYYMMMNNNNNC, where TT = document type YY = reporting year MMM = document type NNNNN= sequential number C = check digit *Source:* **TRI_REPORTING_FORM.**DOC_CTRL_NUM *Reference:* NA (System-generated)
76	CAS NUMBER	C	Chemical Abstracts Service (CAS) Registry Number for unique chemical, or category code (for compounds). **NOTE:** *CAS number 999999999 is for sanitized trade secret submissions; CHEM_NAME displays the reported generic chemical name.* *Source:* **TRI_REPORTING_FORM.**TRI_CHEM_ID *Reference:* Part II, Section 1.1
77	CHEMICAL NAME	C	Name of the chemical 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
78	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. 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
79	ELEMENTAL METAL INCLUDED	C	Indicates whether the facility submitted a combined reporting form for a metal compound and the corresponding elemental metal. This data element collected beginning with RY 2018. VALUES: YES = combined reporting form submitted for both an elemental metal and a metal compound containing the same elemental metal; NO = only metal compound reported; NULL or Blank for Form A. *Source:* **TRI_REPORTING_FORM.**ELEMENTAL_METAL_INCLUDED *Reference:* Part II, Section 1.2

No.	Field Name	Type	Description
80	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 DIOXIN = Dioxin or Dioxin-like compound *Source:* **TRI_CHEM_INFO.**CLASSIFICATION *Reference:* NONE
81	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
82	METAL_IND	C	Code indicating whether the chemical is a metal or not. Yes = Metal No = Non-Metal See "Appendix A -Chemical Classifications – Metals" for a list of TRI Chemical metals. *Source:* **TRI_CHEM_INFO.**Metal_Ind
83	REVISION CODE 1	C	If the facility revised its original TRI reporting form for this chemical, this code indicates the reason for the revision. 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_
84	REVISION CODE 2	C	If the facility revised its original TRI reporting form for this chemical, this code indicates the reason for the revision. 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_
85	PRODUCE THE CHEMICAL	C	Indicates whether 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
86	IMPORT THE CHEMICAL	C	Indicates whether the chemical is imported at this facility. Yes = imported No = not imported *Source:* **TRI_CHEM_ACTIVITY.**IMPORTED *Reference:* Part II, Section 3.1b
87	ON-SITE USE OF THE CHEMICAL	C	Indicates whether the chemical is produced or imported on site for use at this facility. Yes = on-site use

No.	Field Name	Type	Description
			No = not used on-site *Source:* **TRI_CHEM_ACTIVITY.**USED_PROCESSED *Reference:* Part II, Section 3.1c
88	SALE OR DISTRIBUTION OF THE CHEMICAL	C	Indicates 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
89	AS A BYPRODUCT	C	Indicates 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
90	AS A MANUFACTURED IMPURITY	C	Indicates whether the chemical is produced or imported at this facility as an impurity. Formerly known as "AS AN IMPURITY" in RY 1999. Yes = impurity No = not impurity *Source:* **TRI_CHEM_ACTIVITY.**MANUFACTURE_IMPURITY *Reference:* Part II, Section 3.1f
91	USED AS A REACTANT	C	Indicates 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
92	P101 - FEEDSTOCKS	C	Code 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
93	P102 - RAW MATERIALS	C	Code 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
94	P103 - INTERMEDIATES	C	Code 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'

No.	Field Name	Type	Description
			Reference: Part II, Section 3.2a
95	P104 – INITIATORS	C	Code 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
96	P199 - OTHER	C	Code 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. 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
97	ADDED AS A FORMULATION COMPONENT	C	Indicates 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
98	P201 - ADDITIVES	C	Code 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
99	P202 – DYES	C	Code 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
100	P203 – REACTION DILUENTS	C	Code 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

No.	Field Name	Type	Description
			Where: ACTIVITY_SUBUSE_CODE = 'P203' *Reference:* Part II, Section 3.2b
101	P204 – INITIATORS	C	Code 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
102	P205 – SOLVENTS	C	Code 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
103	P206 – INHIBITORS	C	Code 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
104	P207 – EMULSIFIERS	C	Code 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
105	P208 – SURFACTANTS	C	Code 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
106	P209 – LUBRICANTS	C	Code 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'

No.	Field Name	Type	Description
			Reference: Part II, Section 3.2b
107	P210 – FLAME RETARDANTS	C	Code 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
108	P211 – RHEOLOGICAL MODIFIERS	C	Code 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
109	P299 – OTHER	C	Code 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. 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 = 'P299' *Reference:* Part II, Section 3.2b
110	USED AS AN ARTICLE COMPONENT	C	Indicates whether the facility uses the reported chemical as an integral component of an article distributed for industrial, trade, or consumer use. Yes = integral component No = not integral component *Source:* **TRI_CHEM_ACTIVITY.**ARTICLE_COMPONENT *Reference:* Part II, Section 3.2c
111	REPACKAGING	C	Indicates 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
112	AS A PROCESS IMPURITY	C	Indicates 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.	Field Name	Type	Description
			No = Not a Process Impurity *Source:* **TRI_CHEM_ACTIVITY.**PROCESS_IMPURITY *Reference:* Part II, Section 3.2e
113	PROCESSED - RECYCLING	C	Indicates 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
114	USED AS A CHEMICAL PROCESSING AID	C	Indicates whether the chemical is used at this facility as a chemical processing aid by adding the reported 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
115	Z101 – PROCESS SOLVENTS	C	Code 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
116	Z102 – CATALYSTS	C	Code 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
117	Z103 – INHIBITORS	C	Code 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
118	Z104 – INITIATORS	C	Code 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'

No.	Field Name	Type	Description
			Reference: Part II, Section 3.3a
119	Z105 – REACTION TERMINATORS	C	Code 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
120	Z106 – SOLUTION BUFFERS	C	Code 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
121	Z199 – OTHER	C	Code 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. 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 = 'Z199' *Reference:* Part II, Section 3.3a
122	USED AS A MANUFACTURING AID	C	Indicates 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
123	Z201 – PROCESS LUBRICANTS	C	Code 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

No.	Field Name	Type	Description
124	Z202 – METALWORKING FLUIDS	C	Code 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
125	Z203 – COOLANTS	C	Code 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
126	Z204 – REFRIGERANTS	C	Code 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
127	Z205 – HYDRAULIC FLUIDS	C	Code 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
128	Z299 – OTHER	C	Code 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 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 = 'Z299' *Reference:* Part II, Section 3.3b
129	ANCILLARY OR OTHER USE	C	Indicates 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

No.	Field Name	Type	Description
			Reference: Part II, Section 3.3c
130	Z301 – CLEANER	C	Code 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
131	Z302 – DEGREASER	C	Code 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
132	Z303 – LUBRICANT	C	Code 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
133	Z304 – FUEL	C	Code 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
134	Z305 – FLAME RETARDANT	C	Code 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
135	Z306 – WASTE TREATMENT	C	Code 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

No.	Field Name	Type	Description
136	Z307 – WATER TREATMENT	C	Code 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
137	Z308 – CONSTRUCTION MATERIALS	C	Code 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
138	Z399 – OTHER	C	Code 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 – 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 – 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.