

P2 Tool Quick Start Guide

Introduction

The TRI Pollution Prevention (P2) Search Tool offers easy access to the P2 information submitted by industrial facilities in their Toxics Release Inventory (TRI) reports. This guide demonstrates how you can use the P2 Search Tool to help answer your questions about P2, waste management, and environmental progress at facilities. Click on the questions below to learn about the primary functions of the Tool, scroll through the Tool images and associated text to learn about the different features, or click on a bulleted sub-topic to jump to a specific feature.

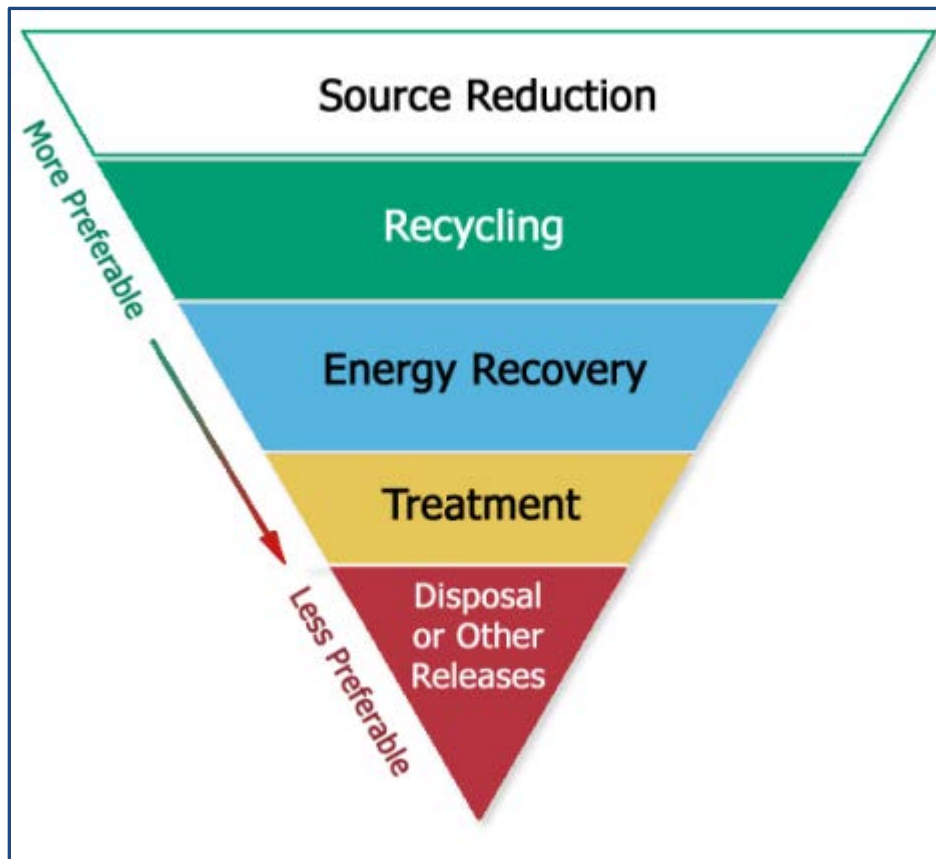
Questions covered in this Guide include:

1. What P2 information is reported to TRI and where can I find definitions of P2 terminology?	3
2. How do I find reported P2 practices for a specific chemical and/or industry?	4
2.A Can I see which P2 activities contributed to the largest reductions in releases to air, water, or land?	5
2.B Can I filter the results by other types of P2 information, such as barriers to P2?	5
2.C Can I find examples of facilities that implemented a specific type of P2 practice, such as those that made a chemical substitution?	6
2.D Can I download the results (e.g., to Excel)?	6
3. How do I compare P2 progress and waste management practices across facilities?	7
3.A How can I view waste management trends for a whole industry?	9
3.B How do I see which facilities managed the greatest quantities of a chemical?	9
3.C Can I compare different metrics across facilities, like facility greenhouse gas emissions or a five-year waste trend?	9
3.D Can I download my results to Excel (including data that do not fit in the charts)?	10
4. How do I compare P2 progress and waste management practices across parent companies?	11
4.A How can I view waste management trends for a whole industry?	13
4.B How do I see which parent companies managed the greatest quantities of a chemical?	13
4.C Can I compare different metrics across parent companies, like facility greenhouse gas emissions or a five-year waste trend?	13
4.D Can I download my results to Excel (including data that do not fit in the charts)?	14
5. How do I view the P2 efforts reported by a specific facility for a specific chemical?	15
5.A Can I see waste management of a specific chemical at a facility over time?	17
5.B How do I learn other information such as whether waste management trends are driven by changes in production or if the facility reports greenhouse gas emissions?	17

5.C How can I tell whether a facility's waste management practices are similar to the rest of its industry?	17
5.D Can I download all P2 information reported by a specific facility?	17
5.E How do I view the P2 information for other chemicals managed by this facility?	17
6. How do I view the P2 efforts reported by a specific facility for all reported chemicals?	18
6.A Can I see total waste management for all chemicals reported at a facility over time?	19
6.B Can I compare how the facility's waste management practices differ between chemicals?	20
6.C Can I see which chemicals managed at the facility have P2 information?	20
6.D How can I find other TRI information (e.g. releases) for this facility?	20
7. How do I search for a specific facility to determine if P2 information was reported?	21

1. P2 information reported to TRI and P2 terminology

TRI tracks each facility's progress towards the goals of the Pollution Prevention Act using the framework provided by the waste management hierarchy (see below). The [Pollution Prevention Overview](http://www.epa.gov/enviro/tri-pollution-prevention-overview) (www.epa.gov/enviro/tri-pollution-prevention-overview) provides a full explanation of the information collected and key P2-related terms.



[Return to Questions](#)

2. Find P2 examples for a specific industry and chemical

Start at the main P2 search page: www.epa.gov/enviro/facts/tri/p2.html. Select the industry(s) and/or chemical(s) that you want to search for (in this example: textiles and toluene). The chemical options include both specific chemicals (e.g. toluene) and broader chemical groups (e.g., Hazardous Air Pollutants). You can also limit the search to a specific parent company, a specific year, or geography (state, city or zip code). Click on the drop-down arrow again to select multiple industries, chemicals, years, or states, or start typing into the query boxes to quickly narrow the selection options.



From the blue buttons, click "Show P2 Activities" to see a list of facilities and reported P2 activities for the industry-chemical combination.

Home Multisystem Search Topic Searches System Data Searches About the Data Data Downloads Widgets Services Mobile Other Datasets


TRI

Use the TRI **Pollution Prevention Search** to learn how facilities have reduced releases of toxic chemicals to the environment and compare how different facilities have managed their toxic chemical waste. You can run two types of searches:

1. Click "**Show P2 Activities**" to view reported P2 activities and associated reductions in toxic chemical quantities.
2. Click "**Display Comparison**" to visually compare facilities *or* parent companies' waste management practices and trends.


After clicking a search button and viewing results, you can also get  for any individual facility that matches your search criteria. If you already have a **specific facility** in mind, you can access P2 information for that facility directly using the .


To learn more about P2 and the preferred methods for managing chemical waste, visit the [Pollution Prevention Overview](#).


Need help? The  offers step-by-step instructions on all the features of the P2 Search.


Search Criteria


Show P2 info for facilities Show P2 info for parent companies


Select one or more Industry Sector(s): 


Textiles - 313 


Select one or more Chemical(s) or Chemical Group(s) 

Toluene - 000108883 

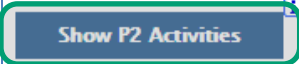


Select one or more Year(s): 

2007-2015 

Select one or more State(s): 

All States 

Enter a ZIP Code or City Name:

Overview of P2 Activities Results Page

Your P2 search results will be displayed in the default format, where facilities with the greatest reduction in total releases are listed first. There are several ways to limit and sort search results.

The screenshot shows the 'Pollution Prevention' search results page. At the top, there are navigation tabs: Home, Multisystem Search, Topic Searches, System Data Searches, About the Data, Data Downloads, Widgets, Services, Mobile, and Other Datasets. Below this is a red header for 'Pollution Prevention' with a 'Return' button and a small image of a factory. A paragraph explains the PPA and TRI data. A 'P2 Quick Start Guide' link is provided. On the right, a 'TRI Links' sidebar lists various tools and guides. Below the sidebar, there are filters for Industry (Textiles), Chemical (Toluene), and Year (between 2007 and 2015). A 'P2 Text Filters' dropdown is set to 'Show information about source reduction AND other environmental practices'. A 'Year-to-Year Comparison' dropdown is set to 'Total Release [displayed currently]'. Below the filters are buttons for 'Copy', 'CSV', 'Excel', 'PDF', and 'Print'. A 'Show 10 entries' dropdown is also present. The main table shows search results with columns for Facility Name, Address, Year, Prior Year Release, Current Year Release, Percent Change, Pollution Prevention Information, and P2 Report. Three rows are visible, each with a 'P2 Details' button. Annotations A through G highlight specific features: A points to the 'Year-to-Year Comparison' dropdown, B points to the 'P2 Text Filters' dropdown, C points to the 'Report an Error' button, D points to the export buttons, E points to the table headers, F points to the 'Pollution Prevention Information' column, and G points to the 'P2 Details' buttons.

Search Results

Home Multisystem Search Topic Searches System Data Searches About the Data Data Downloads Widgets Services Mobile Other Datasets

Pollution Prevention

<< Return

Under the Pollution Prevention Act of 1990 (PPA), TRI collects information to track industry progress in reducing waste generation and moving towards safer waste management alternatives. Measures that facilities have taken to prevent pollution and reduce the amount of toxic chemicals entering the environment are shown in the table below. Although factors other than these reported practices contribute to year-to-year changes in releases, results are sorted by largest reduction in order to facilitate identification of pollution prevention successes. View the P2 Quick Start Guide to learn about this report's features.

Go To Bottom Of The Page

List of Facilities in TRI submitting Pollution Prevention Information for Selected Criteria:

Industry: Textiles
Chemical: Toluene
Year: between 2007 and 2015

P2 Text Filters: Show information about source reduction AND other environmental practices
Year-to-Year Comparison: Total Release [displayed currently]

Copy CSV Excel PDF Print

Show 10 entries Showing 1 to 10 of 104 entries Search Results

Facility Name	Address	Year	Prior Year Release *	Current Year Release *	Percent Change	Pollution Prevention Information (Activity Codes/Text/[Reduction])	P2 Report
WARWICK MILLS INC (WARWICK HOLDING CO)	301 TURNPIKE RD, NEW IPSWICH, NH 03071	2008	55,048.00	1,240.00	-97.75%	Source Reduction: W58: Other process modifications Other Environmental Practices: Continued use of thermal oxydation process using fire tube boilers for heat recovery.	P2 Details
SHAWSHEEN RUBBER CO INC (NA)	220 ANDOVER ST, ANDOVER, MA 01810	2015	2,042.00	214.00	-89.52%	Source Reduction: W43: Substituted a feedstock or reagent chemical with a different chemical	P2 Details
MICROSEAL INC (NA)	610 E 36TH ST, PATERSON, NJ 07650	2007	33,190.00	4,252.00	-87.19%	Source Reduction: W52: Modified equipment, layout, or piping	P2 Details

2.A Use the “Year-to-Year Comparison” dropdown to change the waste type shown in the results table. This modifies the prior year, current year and percent change columns to the waste management quantity selected for comparison. You can select total waste (includes quantities recycled, used for energy recovery, treated, or released), total release (on-site releases to air, water, land, and off-site releases), air release, land release, or water release. **For example**, you can select “Air Release” to sort your search results to show facilities reporting P2 with the greatest decrease in on-site air releases.

2.B Use the “P2 Text Filters” dropdown to change what types of P2 information are displayed in the results table. By default, the search results are filtered to show information about source reduction AND other environmental practices. You can also select to filter results by source reduction only, barriers to source reduction, all information in pollution prevention fields, and results that exclude entries with activity codes (W codes) but no descriptive text.

2.C Use the “Search Results” bar to further filter results by entering parameters such as chemical name, state or a specific keyword. (Tip: use spellings that capture multiple forms of search terms.) **For example**, you can search for “substitut” to find source reduction activities related to chemical substitutions (text entries containing substitute, substitution, substituting, substituted, etc). Or type in “W5” if you're interested in process modifications (source reduction codes from W50 to W58).

2.D Use the buttons on the top left to download or print search results in a variety of different formats.

2.E Sort results by column headings (facility name, address, etc.) by clicking the small arrow under the column heading. Or click the column header to view a description of description of the column and how to interpret the data provided.

2.F The "P2 Information" column displays both source reduction activity codes selected in Section 8.10 and optional narratives provided in Section 8.11. Information on other environmental practices and barriers to source reduction is distinguished from source reduction activities through the use of italicized headings.

2.G The P2 Details button opens the P2 Details page for a single chemical with detailed information on waste management practices and P2 activities for the selected facility and chemical.

[Return to Questions](#)

3. Compare P2 progress and waste management practices across facilities

Start at the main P2 search page: www.epa.gov/enviro/facts/tri/p2.html. Select the industry and/or chemical for which you wish to display a report (in this example: textiles and toluene). Note that although you have the option to search for all chemicals reported by single industry or vice versa, selecting a specific industry–chemical combination may provide more meaningful results to compare waste management practices across facilities. You can also limit the search to a specific geography (state, city or zip code). The search defaults to the most recent year if you don't select a year.

From the blue buttons, click “Display Facility Comparison” to see a comparison of how facilities in the selected industry manage the selected chemical.

The screenshot shows the TRI Pollution Prevention Search interface. At the top, there is a navigation bar with links: Home, Multisystem Search, Topic Searches, System Data Searches, About the Data, Data Downloads, Widgets, Services, Mobile, and Other Datasets. Below this is a red header with the TRI logo. The main content area includes a description of the search tool, a list of search options (Show P2 Activities and Display Comparison), and instructions on how to use the search results. There are also links for P2 Details, TRI Search, and a Pollution Prevention Overview. A section titled "Search Criteria" contains several input fields: radio buttons for "Show P2 info for facilities" (selected) and "Show P2 info for parent companies"; a dropdown menu for "Industry Sector(s)" with "Textiles - 313" selected; a dropdown menu for "Chemical(s) or Chemical Group(s)" with "Toluene - 000108883" selected; a dropdown menu for "Year(s)" with "2007-2015" selected; a dropdown menu for "State(s)" with "All States" selected; and a text input field for "Enter a ZIP Code or City Name:". At the bottom, there are three buttons: "Show P2 Activities", "Display Facility Comparison" (highlighted with a green box), and "Clear".

Home Multisystem Search Topic Searches System Data Searches About the Data Data Downloads Widgets Services Mobile Other Datasets

TRI

Use the TRI **Pollution Prevention Search** to learn how facilities have reduced releases of toxic chemicals to the environment and compare how different facilities have managed their toxic chemical waste. You can run two types of searches:

1. Click "**Show P2 Activities**" to view reported P2 activities and associated reductions in toxic chemical quantities.
2. Click "**Display Comparison**" to visually compare facilities *or* parent companies' waste management practices and trends.

After clicking a search button and viewing results, you can also get **P2 Details** for any individual facility that matches your search criteria. If you already have a **specific facility** in mind, you can access P2 information for that facility directly using the **TRI Search**.

To learn more about P2 and the preferred methods for managing chemical waste, visit the **Pollution Prevention Overview**.

Need help? The **P2 Quick Start Guide** offers step-by-step instructions on all the features of the P2 Search.

Search Criteria

Show P2 info for facilities Show P2 info for parent companies

Select one or more Industry Sector(s): [i](#)

Textiles - 313

Select one or more Chemical(s) or Chemical Group(s) [i](#):

Toluene - 000108883

Select one or more Year(s): [i](#)

2007-2015

Select one or more State(s): [i](#) Enter a ZIP Code or City Name:

All States

Overview of Facility Comparison Results Page


Facility comparison results will be displayed in the default format, with waste quantities displayed for the top 30 facilities. This display includes **all** facilities reporting the selected chemical in the selected industry, including those that did not report any P2 activities. There are several ways to modify the display and view additional metrics.

Search Results

Home
MultiSystem Search
Topic Searches
System Data Searches
About the Data
Data Downloads
Widgets
Services
Mobile
Other Databases

Pollution Prevention

The waste management hierarchy guides waste generators toward the best options for managing wastes. The prevention of toxic waste generation through **source reduction** activities is ideal, but **recycling**, **energy recovery**, and **treatment** are the preferred management methods for waste that is generated.



This report presents waste management methods, quantities, and trends. View the [P2 Quick Start Guide](#) to learn about this report's features.

[Go To Bottom Of The Page](#)

Facility Comparison Report for TRI Facilities Meeting Selected Criteria:

Industry: Textiles
Chemical: Toluene
Year: 2015

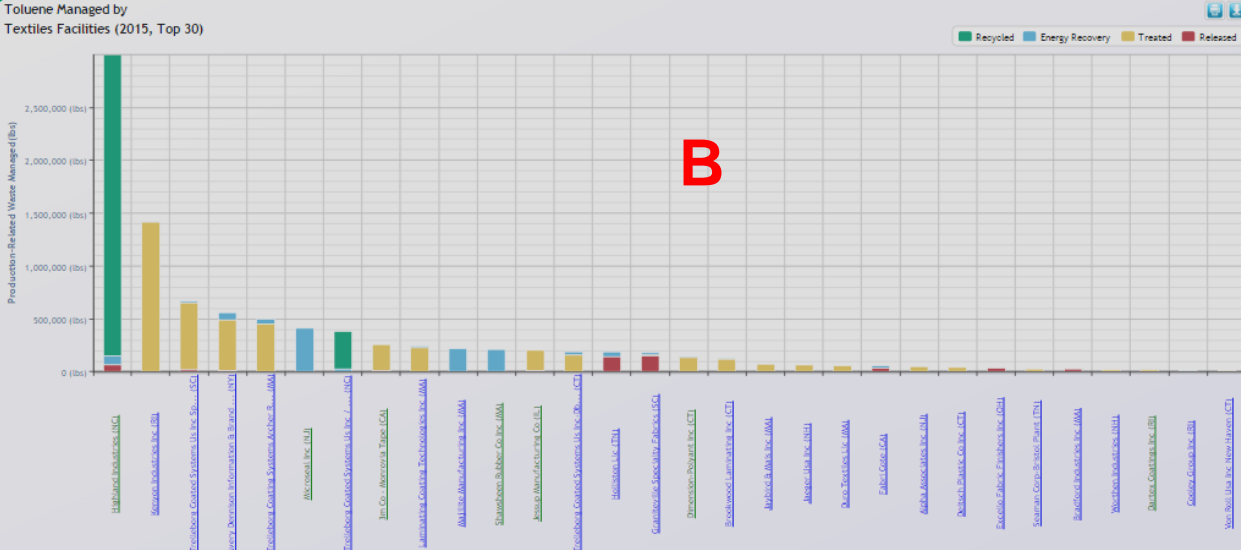
Select one of the (other) top chemicals reported by this sector(s): ▼

Display Data In: Chart | Table | Map

Chart Options: Display waste quantities | Facilities to Display: Top 30

Use the slider bar to adjust the Y-axis (zoom in): 0 - 2,997,511 lbs

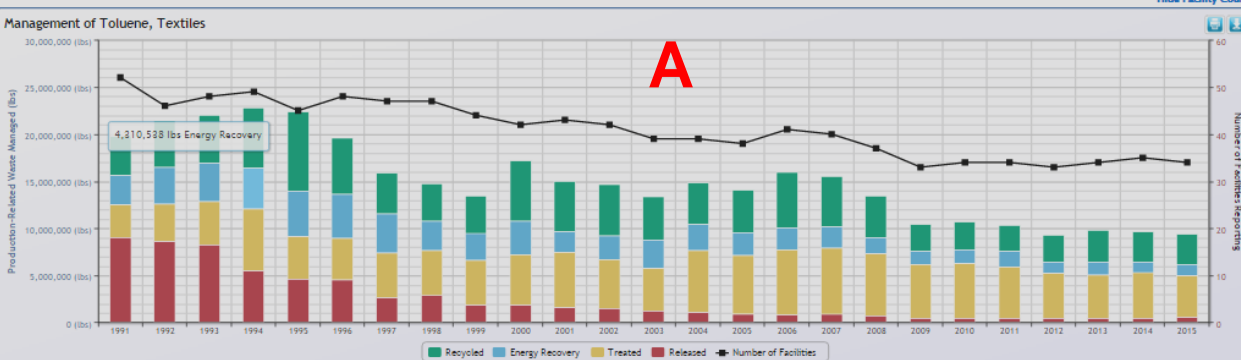
Toluene Managed by Textiles Facilities (2015, Top 30)



Click on [facility name](#) to view [P2 Details](#) for the selected chemical and year. **Green links** indicate the facility reported P2 activities for the selected chemical and year; **orange links** indicate the facility reported barriers to P2. Use [Chart Options](#) to add data to the chart (e.g., [waste trends](#), [GHG emissions](#)).

Use the slider bar to adjust the Y-axis (zoom in): 0 - 22,816,038 lbs

Management of Toluene, Textiles



TRI Links

- Overview
- TRI Tools
 - TRI Explorer
 - TRI Search
 - Form R Search
 - Form R & A Download
 - EZ Search
 - Customized Search
 - Pollution Prevention
 - Data Element Search Tool
- TRI Guides
 - TRI Explorer Guide
 - TRI Search Guide
 - Form R & A Download Guide
 - EZ Search Guide
 - Customized Search Guide
 - Pollution Prevention Guide
 - Operator Definition
 - Model
- Contact Us
 - TRI Program Home
 - RSEI Program Home

Report an Error

8

3.A The **chemical management chart** shows the waste management of the chemical for the selected industry over time. The number of facilities reporting the specific chemical and industry is displayed by the black line, which can be turned off using the "Hide Facility Counts" button.

3.B The **facility comparison chart** compares TRI production-related waste management by facility for the selected industry and chemical (in this example, toluene waste in textile manufacturing). Other display options are available such as a five-year trend for TRI waste managed or greenhouse-gas emissions; see [3.C](#) below for more details. Note that production-related waste is reported and displayed for all TRI facilities, not just facilities that implemented P2 activities.

Download or print the figure and underlying data in a variety of formats.

The **facility names** are linked to a facility P2 Details report page and each name is color coded to indicate if the facility reported implementing P2, barriers to P2 or no text entries. For example, names in green indicate that the facility reported P2 information, orange links indicate the facility reported barriers to P2, and blue links indicate that the facility has not reported any P2 information for the selected chemical and year. See [5](#) below for more information on the P2 Details page.

3.C The "Chart Options" dropdown changes the displayed quantities on the facility comparison chart. Select from the following options:

Display waste quantities: The default option displays the total production-related waste (includes quantities released, recycled, used for energy recovery, and treated) reported by each facility for the specific chemical.

Display waste quantities as a percentage of total waste: This option displays the percent of total production-related waste at each facility that is recycled, used for energy recovery, treated, and released and can help you see, for example, which facilities have minimized the share of their waste that is released to the environment.

Display GHG emissions reported to the GHGRP: In addition to TRI production-related waste, this option displays the greenhouse gas emissions (in metric tons CO₂- equivalent) for all facilities that report to both TRI and EPA's [Greenhouse Gas Reporting Program](#) (GHGRP). Note that some sectors (e.g., textiles) do not have many facilities that are required to report to both TRI and GHGRP.

Display 5-year waste trend: Displays the 5-Year Waste Trend metric for each facility. This option displays a comparison of current waste levels to past waste levels for each facility on a 3-year rolling average basis. The "5-Year Waste Trend" through 2015 is equal to the percent change in average annual waste from the 2009–2011 period to the 2014–2015 period.

Display 5-year waste trend normalized: This option displays the normalized 5-Year Waste Trend metric for each facility. This metric is calculated the same way as the 5-Year Waste Trend, except that waste levels are normalized relative to production using the production ratio/activity ratio values reported by the facility for the chemical.

3.D Use the **Display Options** to toggle between displaying information in charts (shown; the default format), as a downloadable table with facility-level waste management information, or as a map. The table will display all results matching your query while the chart can display 50 facilities at most.

3.E Use this drop-down to re-run the report for a different chemical. The dropdown lists (in order) the 10 chemicals with the most Form R reports for your selected industry(s) and year.

[Return to Questions](#)


4. Compare P2 progress and waste management practices across parent companies

Start at the main P2 search page: www.epa.gov/enviro/facts/tri/p2.html. Select “Show P2 info for parent companies.” Select the industry and chemical for which you wish to display a report (in this example: textiles and toluene). The chemical options include both specific chemicals (e.g. toluene) and broader chemical groups (e.g., Hazardous Air Pollutants). You can also limit the search to a specific parent company or geography (state, city or zip code). Select a year. The parent company comparison can only be conducted for one year; the search defaults to the most recent year if you don’t select a year.



Click the green button, “Display Parent Company Comparison” to see a comparison of how parent companies in the selected industry manage the selected chemical.

Home Multisystem Search Topic Searches System Data Searches About the Data Data Downloads Widgets Services Mobile Other Datasets


TRI

 Use the TRI **Pollution Prevention Search** to learn how facilities have reduced releases of toxic chemicals to the environment and compare how different facilities have managed their toxic chemical waste. You can run two types of searches:

1. Click "**Show P2 Activities**" to view reported P2 activities and associated reductions in toxic chemical quantities.
2. Click "**Display Comparison**" to visually compare facilities *or* parent companies' waste management practices and trends.


After clicking a search button and viewing results, you can also get  for any individual facility that matches your search criteria. If you already have a **specific facility** in mind, you can access P2 information for that facility directly using the .


To learn more about P2 and the preferred methods for managing chemical waste, visit the [Pollution Prevention Overview](#).


Need help? The  offers step-by-step instructions on all the features of the P2 Search.


Search Criteria



Show P2 info for facilities Show P2 info for parent companies



Select one or more Industry Sector(s): 



Textiles – 313 

Select one or more Chemical(s) or Chemical Group(s) 

Toluene – 000108883 

Select one or more Year(s):  2007-2015 

Select one or more Parent Companies:  All Parent Companies 

Select one or more State(s):  All States 

Enter a ZIP Code or City Name:

Overview of Parent Company Comparison Results Page

Parent company comparison results will be displayed in the default format, with waste quantities displayed for facilities in the selected industry for the top 30 companies. This display includes all companies reporting the selected chemical in the selected industry, including companies whose facilities did not report any P2 activities. There are several ways to modify the display and view additional metrics.

Search Results
Home | Multisystem Search | Topic Searches | System Data Searches | About the Data | Data Downloads | Widgets | Services | Mobile | Other Datasets

Pollution Prevention

[Return](#)

The waste management hierarchy guides waste generators toward the best options for managing wastes. The prevention of toxic waste generation through **source reduction** activities is ideal, but **recycling**, **energy recovery**, and **treatment** are the preferred management methods for waste that is generated.

This report presents waste management methods, quantities, and trends. View the [P2 Quick Start Guide](#) to learn about this report's features.

[Go To Bottom Of This Page](#)

Parent Company Comparison Report for TRI Facilities Meeting Selected Criteria:

Industry: Textiles
 Chemical: Toluene
 Year: 2015

13 companies meet these criteria and are displayed below. 4 of them reported P2 in 2015. [Show P2 Activities](#)

Select one of the (other) top chemicals reported by this sector(s):

The Waste Management Hierarchy

TRI Links

- Overview
- TRI Tools
 - TRI Explorer
 - TRI Search
 - Form R Search
 - Form R & A Download
 - E2 Search
 - Customized Search
 - Pollution Prevention
 - Data Element Search Tool
- TRI Guides
 - TRI Explorer Guide
 - TRI Search Guide
 - Form R & A Download Guide
 - E2 Search Guide
 - Customized Search Guide
 - Pollution Prevention Guide
 - Operator Definition
 - Model
- Contact Us
- TRI Program Home
- KSE Program Home

[Report an Error](#)

Display Data In: Chart Table

Chart Options: Display waste quantities Companies to Display: Top 30

The waste quantities per parent company represent only those quantities associated with facilities from the selected industry. Use the slider bar to adjust the Y-axis (zoom in): 0 - 2,997,511 lbs

Parent Company Comparison for Toluene, Textiles (2015)

Click on [parent company name](#) to view [P2 Details](#) for the selected chemical(s) and year. [Green links](#) indicate the company reported P2 activities for the selected chemical(s) and year; [orange links](#) indicate the company reported barriers to P2. Use [Chart Options](#) to add data to the chart (e.g., # of facilities, GHG emissions).

Management of Toluene, Textiles

4.A The **chemical management chart** shows the waste management of the selected chemical for the selected industry over time. The number of facilities reporting the specific chemical and industry is displayed by the black line, which can be turned off using the "Hide Facility Counts" button.

4.B The **parent company comparison chart** compares TRI production-related waste management by parent company for the selected industry and chemical (in this example, toluene waste in textile manufacturing). Other display options are available such as a five-year trend for TRI waste managed or greenhouse-gas emissions; see [4.C](#) below for more details. Note that production-related waste is reported and displayed for all TRI parent companies, not just companies that implemented P2 activities.

Download or print the figure and underlying data in a variety of formats.

The **parent company names** are linked to a facility comparison for facilities owned by the parent company and from this report names are linked to the P2 Details report page. The parent company names are also color coded to indicate if any of the company's facilities reported implementing P2, barriers to P2 or no text entries. For example, names in green indicate that the company reported P2 information, orange links indicate the parent company reported barriers to P2, and blue links indicate that none of the parent company's facilities have reported any P2 information for the selected chemical and year. See [5](#) below for more information on the P2 Details page.

4.C The "Chart Options" dropdown changes the displayed quantities on the parent company comparison chart. Select from the following options:

Display waste quantities: The default option displays the total production-related waste (includes quantities released, recycled, used for energy recovery, and treated) reported by each company for the specific chemical.

Display waste quantities as a percentage of total waste: This option displays the percent of total production-related waste at each company that is recycled, used for energy recovery, treated, and released and can help you see, for example, which companies have minimized the share of their waste that is released to the environment.

Display GHG emissions reported to the GHGRP: In addition to TRI production-related waste, this option displays the greenhouse gas emissions (in metric tons CO₂- equivalent) for all companies that report to both TRI and EPA's [Greenhouse Gas Reporting Program](#) (GHGRP). Note that some sectors (e.g., textiles) do not have many facilities that are required to report to both TRI and GHGRP.

Display 5-year waste trend: Displays the 5-Year Waste Trend metric for each parent company. This option displays a comparison of current waste levels to past waste levels for each company on a 3-year rolling average basis. The "5-Year Waste Trend" through 2015 is equal to the percent change in average annual waste from the 2009-2011 period to the 2014-2015 period.

Display number of facilities per parent company: In addition to TRI production-related waste, this option displays the number of TRI facilities for each parent company.

4.D Use the **Display Options** to toggle between displaying information in charts (shown; the default format) and as a downloadable table with parent company-level waste management information. The table will display all results matching your query while the chart can display 50 companies at most.

4.E Use this drop-down to re-run the report for a different chemical. The dropdown lists (in order) the 10 chemicals with the most Form R reports for your selected industry(s) and year.

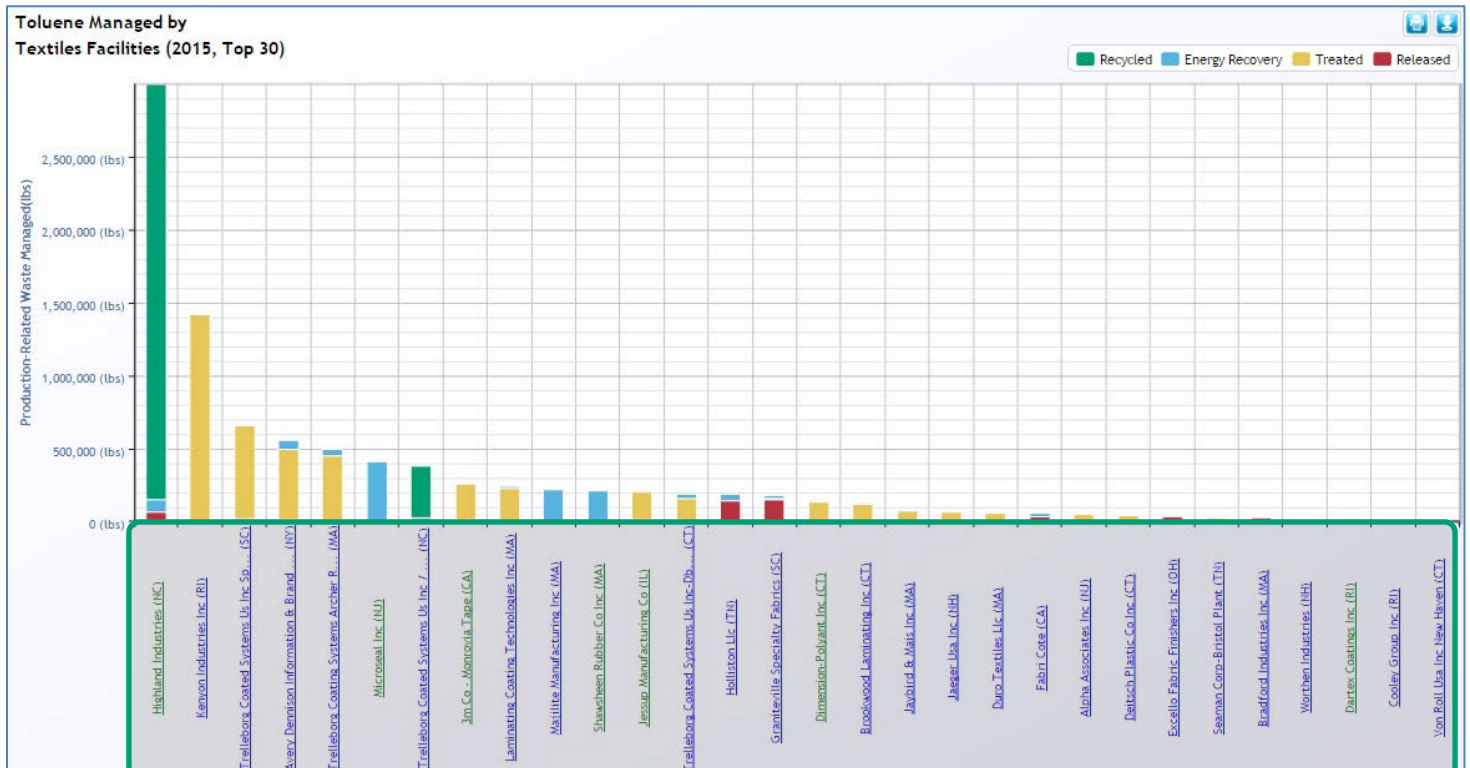
[Return to Questions](#)

5. Learn about the waste management practices and pollution prevention efforts of a specific chemical at a specific facility

The “P2 Details” page contains detailed information about waste management quantities and practices at a specific facility. The P2 Details button is included in various views and lead to the facility level information. Two ways to find the P2 Details Page are described below. One way is from the P2 Activities – List of Facilities Search Results page. Click on the “P2 Details” button for the facility of interest.

Show 10 entries		Showing 1 to 10 of 104 entries				Search Results	
Facility Name	Address	Year	Prior Year Release	Current Year Release	Percent Change	Pollution Prevention Information (Activity Codes/Text/[Reduction])	P2 Report
WARWICK MILLS INC (WARWICK HOLDING CO)	301 TURNPIKE RD, NEW IPSWICH, NH 03071	2008	55,048.00	1,240.00	-97.75%	<p><i>Source Reduction:</i> W58: Other process modifications</p> <p><i>Other Environmental Practices:</i> Continued use of thermal oxydation process using fire tube boilers for heat recovery.</p>	P2 Details
SHAWSHEEN RUBBER CO INC (NA)	220 ANDOVER ST, ANDOVER, MA 01810	2015	2,042.00	214.00	-89.52%	<p><i>Source Reduction:</i> W43: Substituted a feedstock or reagent chemical with a different chemical</p>	P2 Details

Another way to get to the P2 Details page is from the Facility Comparison Results page. Click on a Facility Name displayed on the x-axis of the waste management chart.



Overview of P2 Details Page

Waste management and pollution prevention details are provided for the selected chemical and facility in the format below.

Search Results

Home
Multisystem Search
Topic Searches
System Data Searches
About the Data
Data Downloads
Widgets
Services
Mobile
Other Datasets

Pollution Prevention

Facility ID: 05452BMXXX1000R

Facility Name and Address:
GLOBALFOUNDRIES US 2 LLC - VERMONT FACILITY
1000 RIVER ST
ESSEX JUNCTION, VT 05452

Parent Company:

Industry: Semiconductor and Related Device Manufacturing (334413)

Chemical: N-Methyl-2-Pyrrolidone

Reports:
View TRI Facility profile report for this facility
View TRI Form R submissions by this facility

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*You can navigate within the map with your mouse.

TRI Links

- Overview
- TRI Tools
 - TRI Explorer
 - TRI Search
 - Form R Search
 - Form R & A Download
 - EZ Search
 - Customized Search
 - Pollution Prevention
 - Data Element Search Tool
- TRI Guides
 - TRI Explorer Guide
 - TRI Search Guide
 - Form R & A Download Guide
 - EZ Search Guide
 - Customized Search Guide
 - Pollution Prevention Guide
 - Operator Definition
 - Modal
- Contact Us
- TRI Program Home
- RSEI Program Home

Report an Error

Production Related Waste Management for Selected Chemical

Show P2 data for other chemicals at this facility:

Select a chemical

Management of N-Methyl-2-Pyrrolidone
at Facility GLOBALFOUNDRIES US 2 LLC - VERMONT FACILITY

Chart Options:

- Display waste quantities only
- Display production index
- Normalize waste quantities relative to production
- Display waste quantities as a percentage of total waste
- Display GHG Emissions Reported to CHGRP

Waste Management Comparison - Select Year: 2015

GLOBALFOUNDRIES US 2 LLC - VERMONT FACILITY

Total for N-Methyl-2-Pyrrolidone: 50261 lbs

All Semiconductor and Related Device Manufacturing
107 other TRI reporters, 41 reporting N-Methyl-2-Pyrrolidone

Total for N-Methyl-2-Pyrrolidone: 12.51 million lbs

Find [more P2 activities](#) for this industry and chemical
Display [facility comparison report](#) for this industry and chemical

Pollution Prevention Activities for Selected Chemical

Copy
CSV
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Show 10 entries
Showing 1 to 10 of 20 entries
Search:

Reporting Year	Section 8.10: Newly Implemented Source Reduction Activity	Section 8.10: Methods to Identify Activity	Section 8.11: Optional Pollution Prevention Information*
2015	<p><i>Source Reduction:</i> W42: Substituted raw materials[-0-4%]</p> <p><i>Source Reduction:</i> W51: Instituted recirculation within a process[-50-99%]</p>	<p><i>Methods to Identify SR Opportunities:</i> T04: Participative team management</p> <p><i>Methods to Identify SR Opportunities:</i> T04: Participative team management</p>	<p><i>Other Environmental Practices:</i> Energy Recovery - ENERGY RECOVERY: In 2015, GLOBALFOUNDRIES U.S. 2 LLC continued to consolidate drummed and bulk NMP waste. This consolidated waste stream was sent off site for fuel blending. Some NMP shipments were held in 2015 while evaluating potential reclaim options, however it was determined that the NMP is not pure enough to reclaim at the current time.</p> <p><i>Source Reduction:</i> Source Reduction - W42: NMP clean process on certain tools was replaced with a de-ionized (DI) water rinse process. It appears that the DI water does as effective a job as NMP. This is a shorter rinse and eliminated the use of 2190 liters of NMP per year. This process change was instituted on an additional tool in early 2016, thereby resulting in additional chemical savings in 2016.</p> <p><i>Other Environmental Practices:</i> Recycling - W51: At tool recycle capability is utilized. The equipment allows chemical recycling and reuse of NMP allowing the chemical to be used several times before disposal. In 2015, 42,960 pounds of NMP was recycled at the tools. 271,686 pounds of a chemical stripper that contains 70% NMP, was also recycled at the tool in 2015 using a similar process.</p>

16

5.A The **chemical management chart** shows how much waste was released, recycled, used for energy recovery, and treated over time. Click on hyperlinked years along the x-axis to see the P2 text reported by the facility for that year (also displayed in the Pollution Prevention chart below).

5.B The “Chart Options” checkboxes change the displayed quantities on the chemical management chart. Select from the following options:

Display waste quantities only: The default option displays the total production-related waste reported by the facility for the chemical.

Display production index adds a black line on the chart showing how production at the facility has changed from year to year.

Normalize waste quantities relative to production shows the trends in waste quantities per unit of output.

Display waste quantities as a percentage of total waste displays the percent of total production-related waste at each facility that is recycled, used for energy recovery, treated, and released and shows you whether the facility has shifted towards preferred waste management techniques like recycling.

Display GHG Emissions Reported to GHGRP can also be added to the chart for facilities covered by EPA's GHG Reporting Program.

5.C The waste management comparison chart compares the facility's waste management practices for the specified chemical and year to the rest of the industry's. Switch the displayed year using the dropdown menu at the top of the chart.

Click on the hyperlinks below the pie charts to view additional P2 information: “More P2 activities” to view a list of P2 Activities for search results for this industry and chemical and “facility comparison report” to compare this facility's P2 progress to other facilities' in the same industry.

5.D The **Pollution Prevention Activities** section lists all pollution prevention information reported by the facility for the selected chemical by year. You can search for keywords, sort by columns, and download the results in a variety of formats.

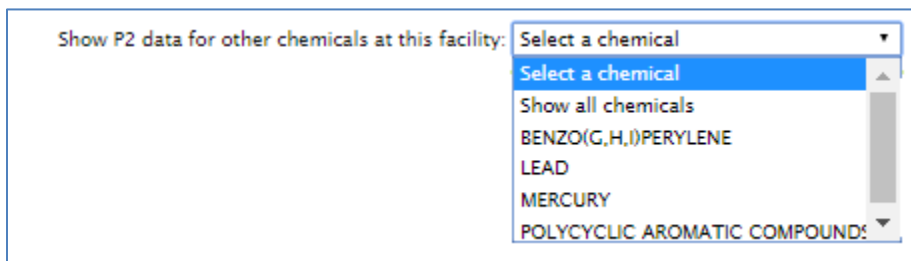
5.E The “Show P2 Data for other chemicals at this facility” dropdown takes you to the P2 Details page for another chemical reported by the facility. You can also select “Show all chemicals” to view a report of the waste management and P2 for all chemicals at the facility.

5.F The **Reports** section lead to TRI information presented in other data tools. Click the TRI Facility profile link to view the facility's report available from the [TRI Search](#) tool. Click the TRI Form R submission link to view a list of all the Form Rs reported by the facility, by year available from the [TRI Form R Search](#) tool.

[Return to Questions](#)

6. Learn about the waste management practices and pollution prevention efforts of a specific facility across all reported chemicals

The facility-level “P2 Details” page contains a summary of the waste management quantities and practices for all of the chemicals reported to TRI at a specific facility. You can navigate there from the chemical-specific P2 Details page. Click the “Show P2 data for other chemicals at this facility” dropdown and select “Show all chemicals”.



Overview of Facility-Level P2 Details Page

Waste management and pollution prevention details for all chemicals reported by the facility are provided in the format below.

Search Results

[Home](#)
[Multisystem Search](#)
[Topic Searches](#)
[System Data Searches](#)
[About the Data](#)
[Data Downloads](#)
[Widgets](#)
[Services](#)
[Mobile](#)
[Other Datasets](#)

Pollution Prevention

Facility ID: 05452BMXXX1000R

Facility Name and Address:
GLOBALFOUNDRIES US 2 LLC - VERMONT FACILITY

1000 RIVER ST
ESSEX JUNCTION, VT 05452

Parent Company:

Industry: Semiconductor and Related Device Manufacturing (334413)

Reports:
View TRI Facility profile report for this facility
View TRI Form R submissions by this facility

*You can navigate within the map with your mouse.

Production Related Waste Management for Selected Facility

Show P2 data for specific chemicals at this facility:

A

Management of TRI Chemicals
at Facility GLOBALFOUNDRIES US 2 LLC - VERMONT FACILITY

Chart Options:
 Display waste quantities only
 Display waste quantities as a percentage of total waste
 Display CHG Emissions Reported to GHGRP

B

Waste Management by Chemical - Select Year: 2015

Management of TRI Chemicals
at Facility GLOBALFOUNDRIES US 2 LLC - VERMONT FACILITY

Chart Options:
 Display waste quantities only
 Display waste quantities as a percentage of total waste
 Display 5-Year Waste Trend
 Display 5-Year Waste Trend Normalized

C

List all P2 activities for this facility:

Chemical Name	P2 Report	5-Year Waste Trend	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006
AMMONIA	P2 Details	32%	P2	P2	P2	P2	P2	P2	No P2	-	-	No P2
BENZO(G,H,I)PERYLENE	P2 Details	-7%	P2	B	B	B	-	No P2	No P2	No P2	No P2	No P2
ETHYLENE GLYCOL	P2 Details	-13%	P2	P2	P2	P2	P2	P2	P2	P2	P2	P2
HYDROCHLORIC ACID (1995 AND AFTER "ACID AEROSOLS" ONLY)	P2 Details	-14%	P2	P2	P2	P2	P2	P2	P2	No P2	No P2	No P2
HYDROGEN FLUORIDE	P2 Details	53%	P2	P2	P2	P2	P2	P2	P2	P2	P2	P2

6.A The chemical management chart shows the total waste released, recycled, used for energy recovery, and treated over time for all chemicals reported by the facility.

19

The “Chart Options” checkboxes change the displayed quantities on the chemical management chart. Available options are described in [section 5B](#) above.

6.B The waste management by chemical chart compares the facility's waste management practices for the top reported chemicals by year. Switch the displayed year using the dropdown menu at the top of the chart. You can click the chemical name to view the P2 Details page for a specific chemical of interest.

The “Chart Options” checkboxes change the displayed quantities on the waste management by chemical chart. Select from the following options:

Display waste quantities only: The default option displays the total production–related waste reported by the facility for the chemical.

Display waste quantities as a percentage of total waste displays the percent of total production–related waste for each chemical that is recycled, used for energy recovery, treated, and released and shows you whether the facility has shifted towards preferred waste management techniques like recycling for each chemical.

Display 5–Year Waste Trend metric for each chemical managed by the facility. This option displays a comparison of current waste levels to past waste levels for each chemical on a 3–year rolling average basis. The “5–Year Waste Trend” through 2015 is equal to the percent change in average annual waste from the 2009–2011 period to the 2014–2015 period.

Display 5–Year Waste Trend Normalized is calculated the same way as the 5–Year Waste Trend, except that waste levels are normalized relative to production using the production ratio/activity ratio values reported by the facility for each chemical.

6.C The **Pollution Prevention Activities** section shows the years in which the facility reported P2 information (TRI Section 8.10 and 8.11) for each chemical. Select “P2 Details” to view the P2 Details page for a specific chemical of interest.

Click “List all P2 activities for this facility” to view all the P2 information reported by this facility.

6.D The **Reports** section lead to TRI information presented in other data tools. Click “TRI Facility Profile” to view the facility’s report available from the [TRI Search](#) tool. Click “TRI Form R Submissions” to view a list of all Form Rs reported by the facility, by year available from the [TRI Form R Search](#) tool.

[Return to Questions](#)

7. Find P2 Information for a Specific Facility

Searching for a specific facility by name is currently possible through the TRI Search query in Envirofacts.

Start at the TRI Search page: www.epa.gov/enviro/tri-search. You can search by facility name or TRI Facility ID (in this example, we search for facilities starting with “Du”). Click “Search” to see a list of facilities meeting your criteria.


TRI Search

Home Multisystem Search Topic Searches **System Data Searches**

About the Data Data Downloads Widgets Services Mobile

Other Datasets

TRI



The Toxics Release Inventory (TRI) Search retrieves data from the TRI database in Envirofacts.

TRI Search allows access to basic facility information, all forms submitted to EPA since 1987, aggregate chemical release data for all years reported, and relative risk information. The results display any facility that has reported from 1987 to present, even though the facility may or may not have submitted TRI data in the most recent reporting year. The last year of data displayed represents the last year TRI data was reported.

For each facility there is a link to summarized TRI information for years reported, Federal Registry System (FRS) facility information, a corresponding Risk Screening Environmental Indicator (RSEI) report that provides a quantitative, relative estimate of risk posed by the facility based on the chemical released and potential exposure pathways, and a Pollution Prevention (P2) report presenting measures taken to prevent pollution and reduce the amount of toxic chemicals entering the environment. You may narrow your search by filtering through facility name/ID, geographic location, standard industrial classification, and chemical names/CAS numbers.

Facility Selection

Facility Identification:

Facility Name (Enter a partial or complete Facility Name) ▼

Facility Identification Option Value:

Du

Beginning With Exact Match Containing

Search Values

Use Multisystem facility information to perform facility search

Use TRI facility information only to perform facility search

Search **Clear**

The Search Results page shows a list of facilities that meet your search criteria. Select “P2 Details” under P2 Report for the facility you are interested in to navigate to the facility's P2 Report in the P2 Tool.

TRI

<< Return

Search Parameters:
TRI facility information searched
Name: Beginning With: Du

Results are based on data extracted on OCT-19-2016

Note:
Click on the TRI Facility Report button to view a detailed report on the facility.
Click on the TOTAL FORMS value to view the forms for each TRI Reporting Year.

List of EPA-Regulated Facilities in TRI

Copy CSV Excel PDF Print

Showing 1 to 10 of 307 entries Show 10 entries Search:

First Previous 1 2 3 4 5 ... 31 Next Last

TRI FACILITY REPORT	TRI FACILITY ID	FACILITY NAME	ADDRESS	COUNTY NAME	LATITUDE LONGITUDE	TOTAL FORMS	LAST FORM	RISK SCREENING	P2 REPORT
TRI Facility Report	36874DDLXL8775H	DUDLEY LUMBER CO	8775 HWY 280 E SALEM, AL 36874	LEE	32.598712, -85.24083	13	2015	Report	P2 Details
TRI Facility Report	36303DNBRT1101T	DUNBARTON CORP REDIFRAME DIV	1101 TECHNOLOGY DR DOTHAN, AL 36303	HOUSTON	31.27516, -85.40487	9	2015	Report	P2 Details
TRI Facility Report	36302DNBRT868MU	DUNBARTON CORP SLIMFOLD DIV	868 MURRAY RD DOTHAN, AL 363035718	HOUSTON	31.25702, -85.40355	46	2001	N/A	P2 Details
TRI Facility Report	36505DPNTMHIGHW	DUPONT MOBILE PLANT	12650 HWY 43 AXIS, AL 36505	MOBILE	30.954444, -88.018889	507	2015	Report	P2 Details
TRI Facility Report	35756DRCTP26655	DURA COAT PRODUCTS INC	26655 PEOPLES RD MADISON, AL 35756	LIMESTONE	34.634316, -86.846668	211	2015	Report	P2 Details

If the selected facility reported P2 information, a summary table will display at the bottom of the facility's P2 Report showing the years in which the facility reported P2 information (TRI Section 8.10 and 8.11) for each chemical. Select "P2 Details" for the specific chemical of interest to view the detailed information.

Pollution Prevention Activities for Selected Facility

List all P2 activities for this facility

Chemical Name	P2 Report	5-Year Waste Trend	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006
AMMONIA	P2 Details	32%	P2	P2	P2	P2	P2	P2	No P2	-	-	No P2
BENZO(G,H,I)PERYLENE	P2 Details	-7%	P2	B	B	B	-	No P2	No P2	No P2	No P2	No P2
ETHYLENE GLYCOL	P2 Details	-13%	P2	P2	P2	P2	P2	P2	P2	P2	P2	P2
HYDROCHLORIC ACID (1995 AND AFTER "ACID AEROSOLS" ONLY)	P2 Details	-14%	P2	P2	P2	P2	P2	P2	P2	No P2	No P2	No P2
HYDROGEN FLUORIDE	P2 Details	53%	P2	P2	P2	P2	P2	P2	P2	P2	P2	P2
N-METHYL-2-PYRROLIDONE	P2 Details	12%	P2	P2	P2	P2	P2	P2	P2	P2	P2	P2
NITRATE COMPOUNDS	P2 Details	-11%	P2	P2	P2	P2	P2	P2	P2	P2	No P2	No P2
NITRIC ACID	P2 Details	38%	P2	P2	P2	P2	P2	P2	P2	P2	P2	P2
OZONE	P2 Details	9%	P2	P2	P2	P2	No P2	No P2	No P2	No P2	No P2	No P2
POLYCYCLIC AROMATIC COMPOUNDS	P2 Details	-10%	P2	B	B	B	B	No P2	No P2	No P2	No P2	No P2
SULFURIC ACID (1994 AND AFTER "ACID AEROSOLS" ONLY)	P2 Details	55%	P2	P2	P2	P2	P2	P2	P2	No P2	No P2	No P2

Additional Resources

- [TRI Pollution Prevention website](#)
 - Learn more about the types of Pollution Prevention Information collected by TRI.
- [TRI P2 Resources website](#)
 - Get access to factsheets, tutorials, articles, and reporting guidance related to P2 information collected by TRI.

[Return to Questions](#)