



# Seventeenth Annual Toxic Chemical Report



September 2005



## EXECUTIVE SUMMARY

Under the federal Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA), affected companies must report “on- and off-site disposal or other releases” to the environment of more than 650 toxic chemicals. The 17th Annual Toxic Chemical Report documents reported releases of toxic chemicals in Illinois for calendar year 2003, the most recent data available.

In 2003, 1,239 facilities in Illinois reported toxic chemical releases of 132,401,173 pounds, which is the 9th largest amount among states. The most common type of release was air emissions, accounting for approximately 42 percent of reported releases. The top five Illinois counties for reported toxic releases were: 1. Peoria 2. Cook 3. Madison 4. Montgomery 5. Macon.

Total releases in 2003 decreased slightly from 133,180,128 pounds reported for 2002. There have been substantial reductions in Illinois and nationally since reporting began in 1988. Although it is difficult to compare annual data because of changes to the reporting requirements over the years, the downward trend in releases is apparent. For example, using a 1988 baseline, which only includes the chemicals and industries that were subject to reporting in 1988, releases in Illinois have declined from nearly 140 million pounds in 1988 to about 60 million pounds in 2003, resulting in a 54 percent decrease.

Using a 1998 baseline, which includes chemicals and industries added to the reporting requirements from 1988 through 1998, releases declined from approximately 165 million pounds in 1998 to 130 million pounds annually in 2003, which amounts to a 21 percent decrease.

In assessing this data, it is important to understand what counts as a “release” under EPCRA. For example, toxic chemicals that are treated in certain ways, recycled, or used to make energy are not counted as released to the environment.

Understanding the limitations of this data is also important. For example, although EPCRA captures most of the toxic chemicals currently being used by covered industry sectors, it does not cover all chemicals or all sectors. For example, facilities that do not meet the reporting threshold levels are not required to report, and the toxic release data does not include emissions from mobile sources nor releases of pesticides, volatile organic compounds, and fertilizers from many other non-industrial sources.

In addition, release estimates alone are not sufficient to determine human exposure or to calculate potential adverse effects on human health and the environment. Additional information is necessary to assess exposure and risk, although toxic release data can be used to identify areas of potential concern.

The data in this report was compiled by the U.S. Environmental Protection Agency based on TRI reports received as of December 28, 2004.

Data on every county in Illinois is available from the U.S. Environmental Protection Agency at [www.epa.gov/tri](http://www.epa.gov/tri) or at 202-566-0250.

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## INTRODUCTION

### *About the Toxics Release Inventory (TRI)*

In 1986, Congress created the Emergency Planning and Community Right-to-Know Act (EPCRA), which requires certain companies to annually report releases or transfers of more than 650 listed toxic chemicals. The U.S. Environmental Protection Agency (USEPA) compiles these reports into the Toxics Release Inventory (TRI), which provides local, state and national data. This 17th Annual Toxic Chemical Report is based on the most recent TRI data provided by U.S. EPA.

Chemicals that must be reported under EPCRA are referred to as “TRI Chemicals” in this report. Over the years, the number of facilities required to report has increased as industries and chemicals were added to the reporting requirements. In addition, the threshold levels for reporting certain chemicals have also changed. As explained below, this can make it difficult to compare year-to-year data.

### *What is a Toxic Chemical Release?*

Companies use either the Form R or Form A (for companies with smaller amounts of reportable chemicals) to report “on- and off-site disposal or other releases” to the environment of more than 650 chemicals. This reporting includes all routine and non-routine releases of toxic chemicals to the air, water and land. However, when chemicals are treated, recycled, or used to make energy, they are often not counted as being disposed of or released to the environment. Affected companies must also report transfers of wastes to off-site treatment, storage and disposal facilities. The information that companies report is not necessarily derived from actual monitoring or measurements, but may be estimated from published emission factors, material balance calculations, or engineering calculations.

### **The following constitutes “disposal or other releases:”**

**“Air Emissions”** – Releases to air are reported either as point source or fugitive emissions. Point source emissions occur through confined air streams, such as stacks, vents, ducts, or pipes. Fugitive emissions are all releases to the air that are not released through a confined air stream, including equipment leaks, evaporative losses from surface impoundments and spills, and releases from building ventilation systems.

**“Surface Water Discharge”** – Releases to water include discharges to streams, rivers, lakes, oceans, and other bodies of water. This includes releases from contained sources, such as industrial process outflow pipes or open trenches. Releases due to runoff, including storm water runoff, are also reportable to TRI.

**“Underground Injection”** - Underground injection is the subsurface emplacement of fluids through wells. TRI chemicals associated with manufacturing, the petroleum industry, mining, commercial and service industries, and federal and municipal government-related activities may be injected into Class I, II, III, IV, or V wells, if they do not endanger underground sources of drinking water, public health, or the environment.

**“RCRA Subtitle C Landfill”**- The amount of toxic chemicals released to a landfill permitted under Subtitle C of the federal Resource Conservation and Recovery Act (RCRA).

**“Other Land Releases”** – Releases to land occur within the boundaries of the reporting facility. Releases to land include disposal in landfills (in which wastes are buried), land treatment/application farming (in which a waste containing a listed chemical is applied to or incorporated into soil), surface impoundments (which are uncovered holding areas used to volatilize and/or settle waste materials), and other land disposal methods (such as waste piles) or releases to land (such as spills or leak). Beginning with the 1996 reporting year, facilities separately report amounts released to RCRA subtitle C landfills from amounts released to other on-site landfills.

### *Limitations on Use of Information*

TRI reports reflect releases, transfers and waste management activities of chemicals, not exposures of the public to those chemicals. Release estimates alone are not sufficient to determine exposure or to calculate potential adverse effects on human health and the environment. Although additional information is necessary to assess exposure and risk, TRI data can be used to identify areas of potential concern. TRI, in conjunction with other information, can be used as a starting point in evaluating exposures that may result from releases and other waste management activities of toxic chemicals. The determination of potential risk depends upon many factors, including the toxicity of the chemical, the fate of the chemical after it is released, the locality of the release, and the human or other populations that are exposed to the chemical after its release.

Even with the expanded industry coverage, TRI does not address all sources of releases and other waste management activities. Although TRI is successful in capturing information on a significant portion of toxic chemicals currently being used by covered industry sectors, it does not cover all chemicals or all sectors. In addition, facilities that do not meet the TRI threshold levels are not required to report. TRI data does not include toxic emissions from mobile sources, nor releases of pesticides, volatile organic compounds, and fertilizers from many other non-industrial sources.

Furthermore, facilities only report estimated data, and EPCRA does not mandate that they monitor their releases. Variations between facilities can result from the use of different estimation methods.

The data in this report was compiled by the U.S. Environmental Protection Agency based on TRI reports received as of December 28, 2004.

# ILLINOIS TOXIC RELEASE TRENDS

## *How to Compare Data Across Years*

As the tables below demonstrate, there has been a general downward trend in toxic chemical releases since 1988. However, due to changes to the TRI reporting requirements over the years, it is difficult to compare annual data. Industries and chemicals have been added to the reporting requirements since EPCRA was passed in 1987, and the threshold levels for reporting certain chemicals have also changed.

In order to compare “apples-to-apples,” the trends assessments shown below only include chemicals and industries subject to reporting since the baseline year. This means that the total releases shown for any given year will vary between these trends assessments.

### **Trends: 1988-2003**

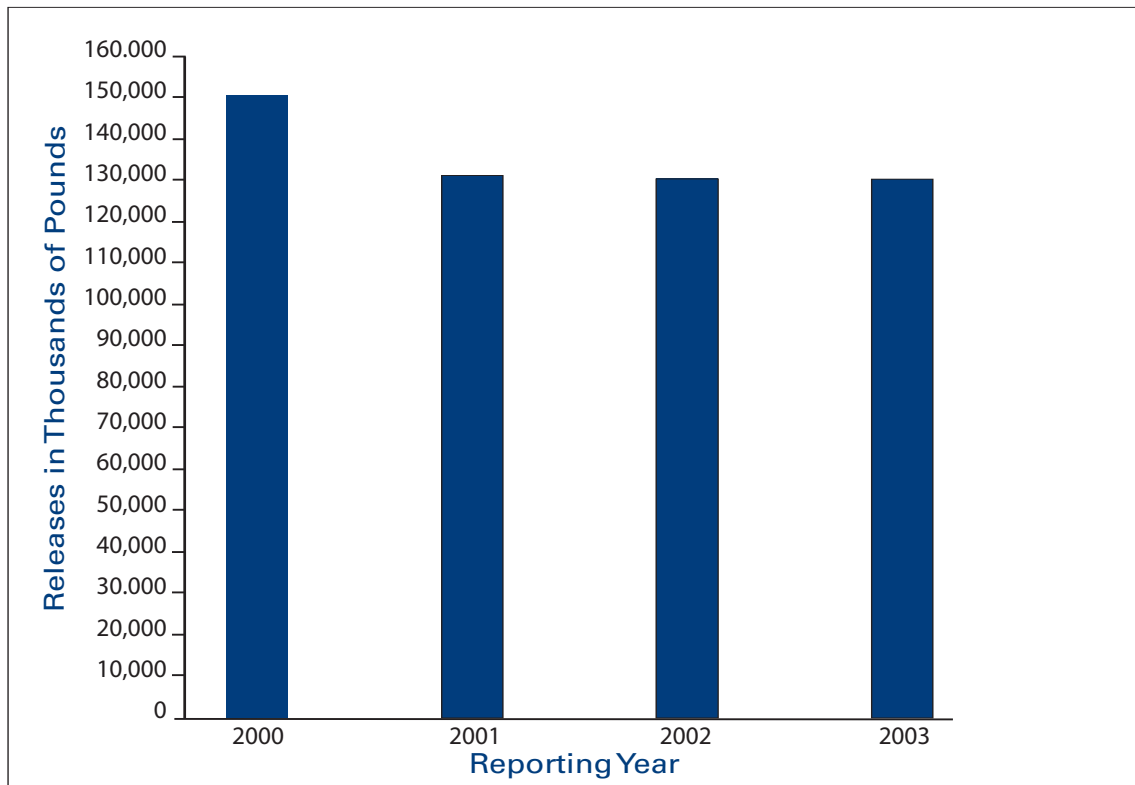
**Table 1: 2001-2003 On- and Off-Site Disposal and Other Reported TRI Releases for Illinois\* • (2001 Baseline)**

	Releases (pounds)	State Rank
2001	133,708,210**	12th
2002	133,874,867**	12th
2003	132,401,173	9th

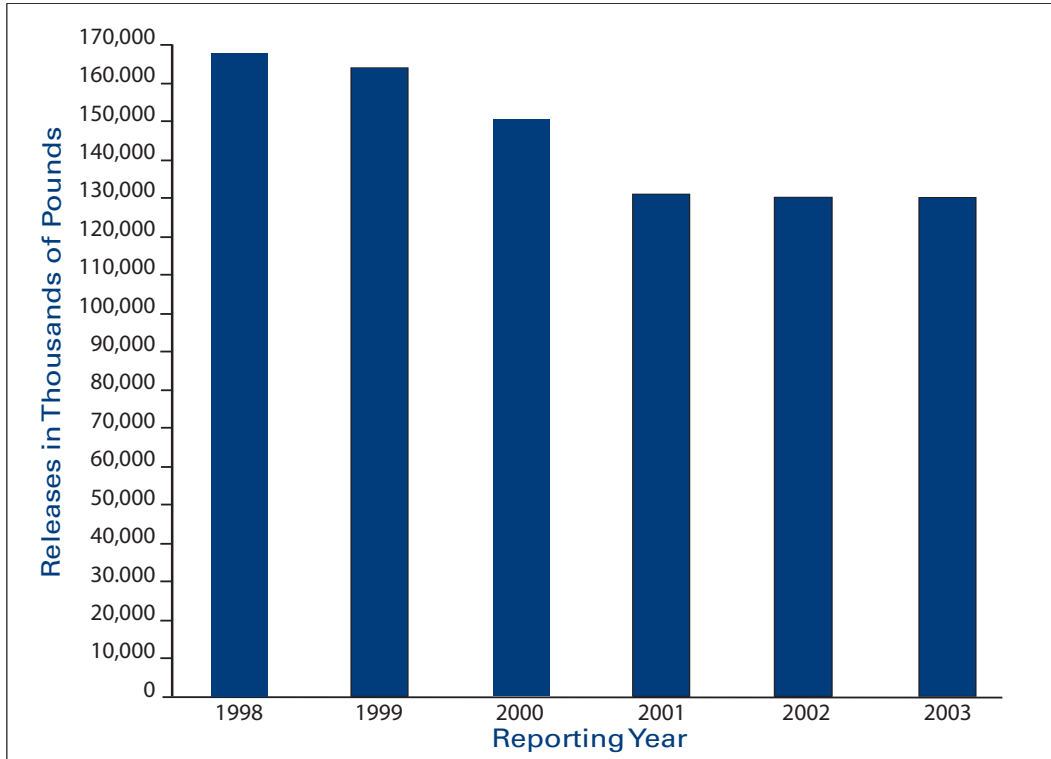
*\*Includes all chemicals and all industries reporting for 2001, 2002 and 2003.*

*\*\*2001, 2002 data has been updated and revised from what was reported in the Sixteenth Annual Toxic Chemical Report.*

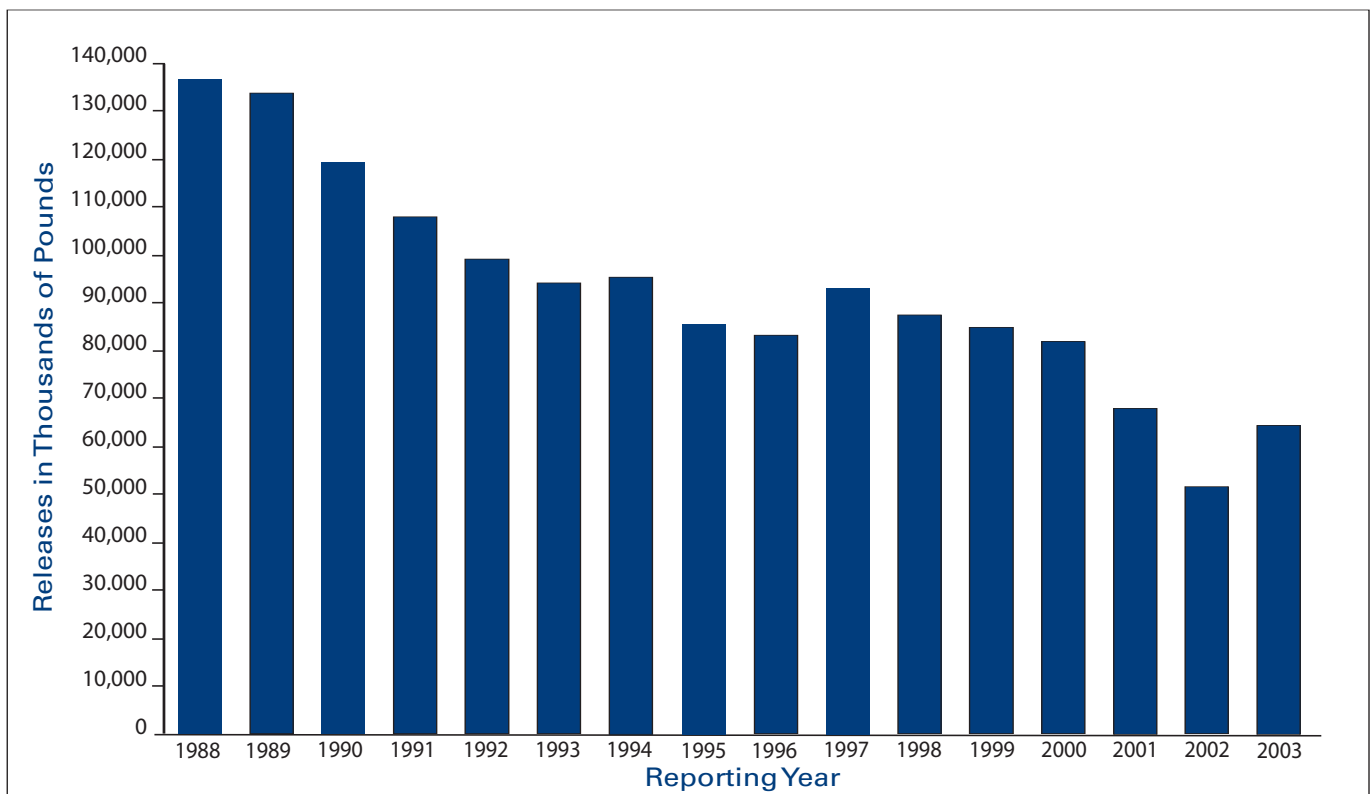
**Table 2: Total On- and Off-Site Disposal or Other Releases Reported (In thousands of pounds), 2000 Core Chemicals, State of Illinois, 2000–2003 All Industries**



**Table 3: TRI Total On- and Off-Site Disposal or Other Releases Reported (In thousands of pounds), 1998 Core Chemicals, State of Illinois, 1998–2003 All Industries**



**Table 4: TRI Total On- and Off-Site Disposal or Other Releases Reported (In thousands of pounds), 1988 Core Chemicals, State of Illinois, 1988–2003 Industries in (SIC codes 20–39)**



## 2003 TOXIC CHEMICAL RELEASES

For Calendar year 2003, 132 million pounds of TRI chemicals were reported as released to the environment in Illinois by the 1,239 facilities that submitted TRI reports. **The most common type of release was air emissions, accounting for approximately 42 percent of reported releases.**

The following tables identify the Top 20 counties, facilities, industries and chemicals for 2003 TRI chemical releases in Illinois.

**Table 5: Top 20 Counties  
TRI On-site and Off-site Disposal or Other Reported Releases (in pounds)  
of TRI Chemicals • 2003 - Illinois**

	County	Total On-site Disposal or Other Releases	Total Off-site Disposal or Other Releases	Total On- and Off-site Disposal or Other Releases
1	PEORIA	29,854,747	5,398,612	35,253,359
2	COOK	5,553,818	10,855,637	16,409,455
3	MADISON	6,489,513	5,837,642	12,327,155
4	MONTGOMERY	6,195,558	195,726	6,391,284
5	MACON	4,362,434	1,835,819	6,198,252
6	ST CLAIR	3,247,141	2,635,856	5,882,997
7	VERMILION	5,716,389	14,475	5,730,864
8	WILL	4,561,115	337,748	4,868,863
9	WHITESIDE	19,322	4,421,987	4,441,309
10	TAZEWELL	1,911,609	1,478,489	3,390,098
11	LA SALLE	1,080,008	2,306,752	3,386,761
12	ROCK ISLAND	3,314,226	58,999	3,373,225
13	CHRISTIAN	1,037,356	1,268,541	2,305,897
14	GRUNDY	2,069,221	4,403	2,073,624
15	WINNEBAGO	1,022,382	1,024,870	2,047,252
16	RANDOLPH	2,001,321	47	2,001,368
17	CASS	1,641,058	0	1,641,058
18	JASPER	1,534,135	20	1,534,155
19	JO DAVIESS	1,475,139	8,569	1,483,708
20	PIKE	1,431,150	0	1,431,150
	<b>All Reported IL Counties</b>			<b>122,201,834</b>



**Table 6: Top 20 Facilities  
Total On-site and Off-site Disposal or Other Reported Releases (in pounds)  
of TRI Chemicals • 2003 - Illinois**

	<b>County</b>	<b>City</b>	<b>County or Parish or County Equivalent</b>	<b>Zip</b>	<b>Total On-site Disposal or Other Releases</b>	<b>Total Off-site Disposal or Other Releases</b>	<b>Total On- and Off-site Disposal or Other Releases</b>
1	PEORIA DISPOSAL CO #1	PEORIA	PEORIA	61615	22,057,559	12	22,057,571
2	UNITED STATES STEEL CORP, GRANITE CITY STEEL	GRANITE CITY	MADISON	62040	3,144,804	4,128,648	7,273,451
3	KEYSTONE STEEL & WIRE CO.	PEORIA	PEORIA	61641	685,600	5,245,000	5,930,600
4	AMEREN ENERGY RESOURCES GENERATING CO.	BARTONVILLE	PEORIA	61607	5,523,144	369	5,523,513
5	AMEREN ENERGY GENERATING, COFFEEN POWER STATION	COFFEEN	MONTGOMERY	62017	4,684,019	195,476	4,879,495
6	ADM	DECATUR	MACON	62526	3,968,505	788,766	4,757,270
7	STERLING STEEL CO. LLC	STERLING	WHITESIDE	61081	6,486	4,420,283	4,426,769
8	BIG RIVER ZINC	SAUGET	ST CLAIR	62201	2,105,878	1,899,037	4,004,915
9	ENVIRITE OF ILLINOIS INC	HARVEY	COOK	60426	412	3,648,239	3,648,651
10	ISG RIVERDALE INC.	RIVERDALE	COOK	60827	36,264	3,533,002	3,569,266
11	TEEPAK LLC	DANVILLE	VERMILION	61834	3,271,400	0	3,271,400
12	TYSON FRESH MEATS INC., JOSLIN IL	HILLSDALE	ROCK ISLAND	61257	2,715,625	24,555	2,740,180
13	CARUS CHEMICAL CO	LASALLE	LASALLE	61301	9,156	2,231,033	2,240,189
14	DYNEGY MIDWEST GENERATION INC., BALDWIN ENERGY COMPLEX	BALDWIN	RANDOLPH	62217	2,000,748	37	2,000,784
15	DOMINION KINCAID GENERATION LLC	KINCAID	CHRISTIAN	62540	717,744	1,268,526	1,986,270
16	EDISON INTL. POWERTON GENERATING STATION	PEKIN	TAZEWELL	61554	452,566	1,473,027	1,925,582
17	EXCEL CORP	BEARDSTOWN	CASS	62618	1,641,058	0	1,641,058
18	CONOCOPHILLIPS WOOD RIVER REFINERY	ROXANA	MADISON	62084	1,540,792	45,928	1,586,720
19	AMEREN ENERGY GENERATING, NEWTON POWER STATION	NEWTON	JASPER	62448	1,534,135	20	1,534,155
20	FREEMAN UNITED COAL MINING CO'S CROWN 3 MINE	FARMERSVILLE	MONTGOMERY	62533	1,495,744	0	1,495,744

**Table 7: Top 20 Industries  
Total On-site and Off-site Disposal or Other Reported Releases (in pounds)  
of TRI Chemicals • 2003 - Illinois**

	<b>Standard Industrial Code: Number and Name</b>	<b>Total On-site Disposal or Other Releases</b>	<b>Total Off-site Disposal or Other Releases</b>	<b>Total On- and Off-site Disposal or Other Releases</b>
1	33 Primary Metals	8,068,936	22,813,361	30,882,297
2	49 Electric Utilities	25,052,245	3,235,332	28,287,577
3	4953/7389 RCRA/Solvent Recovery	22,121,321	4,605,822	26,727,143
4	20 Food	14,333,342	1,353,128	15,686,470
5	28 Chemicals	11,384,780	3,522,259	14,907,039
6	30 Plastics	4,976,913	715,744	5,692,687
7	34 Fabricated Metals	2,500,144	3,166,998	5,667,142
8	29 Petroleum	3,872,232	83,345	3,955,577
9	37 Transportation Equip.	2,001,137	88,217	2,089,355
10	12 Coal Mining	2,000,983	0	2,000,983
11	27 Printing	1,513,341	29,538	1,542,879
12	32 Stone/Clay/Glass	746,656	330,983	1,077,639
13	35 Machinery	624,718	202,905	827,623
14	Electrical Equip.	241,039	400,633	641,672
15	26 Paper	580,069	10,867	590,936
16	10 Metal Mining	12,388	428,348	440,736
17	No Reported Codes	6,528	199,465	205,994
18	24 Lumber	201,585	1,108	202,693
19	39 Miscellaneous	195,845	6,814	202,659
20	25 Furniture	154,487	0	154,487


*Data for all reporting industries, by SIC code, is available from the U.S. Environmental Protection Agency at [www.epa.gov/tri](http://www.epa.gov/tri) or at 202-566-0250.*

**Table 8: Top 20 Chemicals  
Total On-site and Off-site Disposal or Other Reported Releases (in pounds)  
of TRI Chemicals • 2003 - Illinois**

	<b>Chemical</b>	<b>Total On-site Disposal or Other Releases</b>	<b>Total Off-site Disposal or Other Releases</b>	<b>Total On- and Off-site Disposal or Other Releases</b>
1	ZINC COMPOUNDS	22,819,853	20,276,008	43,095,861
2	HYDROCHLORIC ACID (1195 AND AFTER "ACID AEROSOLS" ONLY)	14,225,220	0	14,225,220
3	MANGANESE COMPOUNDS	5,655,950	5,172,507	10,828,458
4	BARIUM COMPOUNDS	5,072,908	3,023,557	8,096,466
5	NITRATE COMPOUNDS	7,007,048	235,835	7,242,883
6	N-HEXANE	6,792,563	2,046	6,794,609
7	SULFURIC ACID (1994 AND AFTER "ACID AEROSOLS" ONLY)	5,027,740	710	5,028,450
8	CHROMIUM COMPOUNDS (EXCEPT CHROMITE ORE MINED IN THE TRANSVAAL REGION)	681,701	2,628,361	3,310,062
9	CARBON DISULFIDE	3,179,204	20	3,179,224
10	METHANOL	3,110,510	27,523	3,138,033
11	LEAD COMPOUNDS	1,609,834	1,394,134	3,003,968
12	AMMONIA	2,886,802	71,261	2,958,063
13	HYDROGEN FLUORIDE	2,698,557	4,377	2,702,934
14	TOLUENE	2,437,864	60,905	2,498,769
15	CADMIUM COMPOUNDS	1,165,969	1,174,205	2,340,174
16	STYRENE	1,732,509	203,805	1,935,594
17	COPPER COMPOUNDS	429,498	1,334,889	1,764,387
18	CERTAIN GLYCOL ETHERS	1,565,780	34,318	1,600,098
19	ETHYLENE	1,462,884	34,318	1,600,098
20	XYLENE (MIXED ISOMERS)	1,335,647	11,547	1,347,194

*Data for all reported chemicals is available from the U.S. Environmental Protection Agency at [www.epa.gov/tri](http://www.epa.gov/tri) or at 202-566-0250.*

(IMPORTANT: Type or print; read instructions before completing form)

 United States Environmental Protection Agency	FORM R	TRI Facility ID Number
	Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, also Known as Title III of the Superfund Amendments and Reauthorization Act	Toxic Chemical, Category or Generic Name

<b>WHERE TO SEND COMPLETED FORMS:</b> 1. TRI Data Processing Center P. O. Box 1513 Lanham, MD 20703-1513 ATTN: TOXIC CHEMICAL RELEASE INVENTORY	2. APPROPRIATE STATE OFFICE (See instructions in Appendix F)	Enter "X" here if this is a revision For EPA use only
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**IMPORTANT: See instructions to determine when "Not Applicable (NA)" boxes should be checked.**

PART 1. FACILITY IDENTIFICATION INFORMATION

**SECTION 1. REPORTING YEAR** \_\_\_\_\_

**SECTION 2. TRADE SECRET INFORMATION**

<b>2.1</b> Are you claiming the toxic chemical identified on page 2 trade secret? <input type="checkbox"/> Yes (Answer question 2.2; Attach substantiation forms)	<input type="checkbox"/> No (Do not answer 2.2; Go to Section 3)	<b>2.2</b> Is this copy <input type="checkbox"/> Sanitized <input type="checkbox"/> Unsanitized (Answer only if "YES" in 2.1)
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**SECTION 3. CERTIFICATION (Important: Read and sign after completing all form sections.)**

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official:	Signature:	Date Signed:

**SECTION 4. FACILITY IDENTIFICATION**

<b>4.1</b>	TRI Facility ID Number
Facility or Establishment Name	Facility or Establishment Name or Mailing Address (If different from street address)
Street	Mailing Address
City/County/State/Zip Code	City/State/Zip Code
	Country (Non-US)

<b>4.2</b>	This report contains information for: (Important: Check a or b; check c or d if applicable) a. <input type="checkbox"/> An entire facility b. <input type="checkbox"/> Part of a facility c. <input type="checkbox"/> A Federal facility d. <input type="checkbox"/> GOCO
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<b>4.3</b>	Technical Contact Name	Telephone Number (include area code)
	Email Address	

<b>4.4</b>	Public Contact Name	Telephone Number (include area code)
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<b>4.5</b>	SIC Code (s) (4 digits)	Primary	a.	b.	c.	d.	e.	f.
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<b>4.6</b>	Latitude	Degrees	Minutes	Seconds	Longitude	Degrees	Minutes	Seconds
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<b>4.7</b>	Dun & Bradstreet Number (s) (9 digits)	<b>4.8</b>	EPA Identification Number (RCRA ID No.) (12 characters)	<b>4.9</b>	Facility NPDES Permit Number(s) (9 characters)	<b>4.10</b>	Underground Injection Well Code (UIC) I.D. Number(s) (12 digits)
	a.		a.		a.		a.
	b.		b.		b.		b.

**SECTION 5. PARENT COMPANY INFORMATION**

<b>5.1</b>	Name of Parent Company	NA <input type="checkbox"/>	
<b>5.2</b>	Parent Company's Dun & Bradstreet Number	NA <input type="checkbox"/>	

(IMPORTANT: Type or print; read instructions before completing form)

# FORM R

## PART II. TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

TRI Facility ID Number
Toxic Chemical, Category or Generic Name

**SECTION 1. TOXIC CHEMICAL IDENTITY** (Important: DO NOT complete this section if you completed Section 2 below.)

1.1	CAS Number (Important: Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.)																		
1.2	Toxic Chemical or Chemical Category Name (Important: Enter only one name exactly as it appears on the Section 313 list.)																		
1.3	Generic Chemical Name (Important: Complete only if Part 1, Section 2.1 is checked "yes". Generic Name must be structurally descriptive.)																		
1.4	<p><b>Distribution of Each Member of the Dioxin and Dioxin-like Compounds Category.</b>                  (If there are any numbers in boxes 1-17, then every field must be filled in with either 0 or some number between 0.01 and 100. Distribution should be reported in percentages and the total should equal 100%. If you do not have speciation data available, indicate NA.)</p> <table border="1"> <tr> <td>NA</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>	NA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

**SECTION 2. MIXTURE COMPONENT IDENTITY** (Important: DO NOT complete this section if you completed Section 1 above.)

2.1	Generic Chemical Name Provided by Supplier (Important: Maximum of 70 characters, including numbers, letters, spaces and punctuation.)

**SECTION 3. ACTIVITIES AND USES OF THE TOXIC CHEMICAL AT THE FACILITY**

(Important: Check all that apply.)

3.1	Manufacture the toxic chemical:	3.2	Process the toxic chemical:	3.3	Otherwise use the toxic chemical:
a. <input type="checkbox"/> Produce    b. <input type="checkbox"/> Import If produce or import c. <input type="checkbox"/> For on-site use/processing d. <input type="checkbox"/> For sale/distribution e. <input type="checkbox"/> As a byproduct f. <input type="checkbox"/> As an impurity		a. <input type="checkbox"/> As a reactant b. <input type="checkbox"/> As a formulation component c. <input type="checkbox"/> As an article component d. <input type="checkbox"/> Repackaging e. <input type="checkbox"/> As an impurity		a. <input type="checkbox"/> As a chemical processing aid b. <input type="checkbox"/> As a manufacturing aid c. <input type="checkbox"/> Ancillary or other use	

**SECTION 4. MAXIMUM AMOUNT OF THE TOXIC CHEMICAL ONSITE AT ANY TIME DURING THE CALENDAR YEAR**

4.1	<input type="text"/> (Enter two digit code from instruction package.)
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**SECTION 5. QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ONSITE**

		A. Total Release (pounds/year*) (Enter a range code** or estimate)	B. Basis of Estimate (enter code)	C. % From Stormwater
5.1	Fugitive or non-point air emissions	NA <input type="checkbox"/>		
5.2	Stack or point air emissions	NA <input type="checkbox"/>		
5.3	Discharges to receiving streams or water bodies (enter one name per box)			
Stream or Water Body Name				
5.3.1				
5.3.2				
5.3.3				

If additional pages of Part II, Section 5.3 are attached, indicate the total number of pages in this box  and indicate the Part II, Section 5.3 page number in this box.  (example: 1,2,3, etc.)

\*For Dioxin or Dioxin-like compounds, report in grams/year.  
 \*\* Range Codes: A= 1-10 pounds; B= 11-499 pounds; C= 500-999 pounds.

# FORM R

## PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)

TRI Facility ID Number

Toxic Chemical, Category or Generic Name

### SECTION 5. QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ONSITE (continued)

	NA	A. Total Release (pounds/year*) (enter range code ** or estimate )	B. Basis of Estimate (enter code)
5.4.1	<input type="checkbox"/>	Underground Injection onsite to Class I Wells	
5.4.2	<input type="checkbox"/>	Underground Injection onsite to Class II-V Wells	
5.5		Disposal to land onsite	
5.5.1A	<input type="checkbox"/>	RCRA Subtitle C landfills	
5.5.1B	<input type="checkbox"/>	Other landfills	
5.5.2	<input type="checkbox"/>	Land treatment/application farming	
5.5.3A	<input type="checkbox"/>	RCRA Subtitle C surface impoundments	
5.5.3B	<input type="checkbox"/>	Other surface impoundments	
5.5.4	<input type="checkbox"/>	Other disposal	

### SECTION 6. TRANSFERS OF THE TOXIC CHEMICAL IN WASTES TO OFF-SITE LOCATIONS

#### 6.1 DISCHARGES TO PUBLICLY OWNED TREATMENT WORKS (POTWs)

##### 6.1.A Total Quantity Transferred to POTWs and Basis of Estimate

6.1.A.1	Total Transfers (pounds/year*) (enter range code ** or estimate)	6.1.A.2	Basis of Estimate (enter code)
	<input type="text"/>		<input type="text"/>

6.1.B  POTW Name

POTW Address

City  State  County  Zip

6.1.B  POTW Name

POTW Address

City  State  County  Zip

If additional pages of Part II, Section 6.1 are attached, indicate the total number of pages in this box  and indicate the Part II, Section 6.1 page number in this box  (example: 1,2,3, etc.)

#### SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS

6.2.  Off-Site EPA Identification Number (RCRA ID No.)

Off-Site Location Name

Off-Site Address

City  State  County  Zip  Country (Non-US)

Is location under control of reporting facility or parent company?  Yes  No

<h1 style="margin: 0;">FORM R</h1> <h2 style="margin: 0;">PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)</h2>	TRI Facility ID Number  Toxic Chemical, Category or Generic Name
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**SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS (CONTINUED)**

A. Total Transfers (pounds/year*) (enter range code**or estimate)	B. Basis of Estimate (enter code)	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code)
1.	1.	1. M
2.	2.	2. M
3.	3.	3. M
4.	4.	4. M

6.2 \_\_\_\_\_ Off-Site EPA Identification Number (RCRA ID No.)

Off-Site Location Name \_\_\_\_\_

Off-Site Address \_\_\_\_\_

City	State	County	Zip	Country (Non-US)
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Is location under control of reporting facility or parent company? Yes  No

A. Total Transfers (pounds/year*) (enter range code**or estimate)	B. Basis of Estimate (enter code)	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code)
1.	1.	1. M
2.	2.	2. M
3.	3.	3. M
4.	4.	4. M

**SECTION 7A. ON-SITE WASTE TREATMENT METHODS AND EFFICIENCY**

Not Applicable (NA) - Check here if no on-site waste treatment is applied to any waste stream containing the toxic chemical or chemical category.

a. General Waste Stream (enter code)	b. Waste Treatment Method(s) Sequence [enter 3-character code(s)]	c. Range of Influent Concentration	d. Waste Treatment Efficiency Estimate	e. Based on Operating Data?			
7A.1a	7A.1b	7A.1c	7A.1d	7A.1e			
	1				2	%	Yes <input type="checkbox"/> No <input type="checkbox"/>
	3				4		
7A.2a	7A.2b	7A.2c	7A.2d	7A.2e			
	1				2	%	Yes <input type="checkbox"/> No <input type="checkbox"/>
	3				4		
7A.3a	7A.3b	7A.3c	7A.3d	7A.3e			
	1				2	%	Yes <input type="checkbox"/> No <input type="checkbox"/>
	3				4		
7A.4a	7A.4b	7A.4c	7A.4d	7A.4e			
	1				2	%	Yes <input type="checkbox"/> No <input type="checkbox"/>
	3				4		
7A.5a	7A.5b	7A.5c	7A.5d	7A.5e			
	1				2	%	Yes <input type="checkbox"/> No <input type="checkbox"/>
	3				4		

If additional pages of Part II, Section 6.2/7A are attached, indicate the total number of pages in this box \_\_\_\_\_ and indicate the Part II, Section 6.2/7 page number in this box: \_\_\_\_\_ (example: 1,2,3,etc.)

<h1 style="margin: 0;">FORM R</h1> <h2 style="margin: 0;">PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)</h2>	TRI Facility ID Number  Toxic Chemical, Category or Generic Name
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**SECTION 7B. ON-SITE ENERGY RECOVERY PROCESSES**

Not Applicable (NA) - Check here if no on-site energy recovery is applied to any waste stream containing the toxic chemical or chemical category.

Energy Recovery Methods [enter 3-character code(s)]

1 
     
 2 
     
 3

**SECTION 7C. ON-SITE RECYCLING PROCESSES**

Not Applicable (NA) - Check here if no on-site recycling is applied to any waste stream containing the toxic chemical or chemical category.

Recycling Methods [enter 3-character code(s)]

1	<input style="width: 100px; height: 20px;" type="text"/>	2	<input style="width: 100px; height: 20px;" type="text"/>	3	<input style="width: 100px; height: 20px;" type="text"/>	4	<input style="width: 100px; height: 20px;" type="text"/>	5	<input style="width: 100px; height: 20px;" type="text"/>
6	<input style="width: 100px; height: 20px;" type="text"/>	7	<input style="width: 100px; height: 20px;" type="text"/>	8	<input style="width: 100px; height: 20px;" type="text"/>	9	<input style="width: 100px; height: 20px;" type="text"/>	10	<input style="width: 100px; height: 20px;" type="text"/>

**SECTION 8. SOURCE REDUCTION AND RECYCLING ACTIVITIES**

		Column A Prior Year (pounds/year*)	Column B Current Reporting Year (pounds/year*)	Column C Following Year (pounds/year*)	Column D Second Following Year (pounds/year*)
<b>8.1</b>					
<b>8.1a</b>	Total on-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills				
<b>8.1b</b>	Total other on-site disposal or other releases				
<b>8.1c</b>	Total off-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills				
<b>8.1d</b>	Total other off-site disposal or other releases				
<b>8.2</b>	Quantity used for energy recovery onsite				
<b>8.3</b>	Quantity used for energy recovery offsite				
<b>8.4</b>	Quantity recycled onsite				
<b>8.5</b>	Quantity recycled offsite				
<b>8.6</b>	Quantity treated onsite				
<b>8.7</b>	Quantity treated offsite				
<b>8.8</b>	Quantity released to the environment as a result of remedial actions, catastrophic events, or one-time events not associated with production processes (pounds/year)*				
<b>8.9</b>	Production ratio or activity index				
<b>8.10</b>	Did your facility engage in any source reduction activities for this chemical during the reporting year? If not, enter "NA" in Section 8.10.1 and answer Section 8.11.				
	Source Reduction Activities [enter code(s)]	Methods to Identify Activity (enter codes)			
<b>8.10.1</b>		a.	b.	c.	
<b>8.10.2</b>		a.	b.	c.	
<b>8.10.3</b>		a.	b.	c.	
<b>8.10.4</b>		a.	b.	c.	
<b>8.11</b>	Is additional information on source reduction, recycling, or pollution control activities included with this report? (Check one box)			Yes <input type="checkbox"/>	No <input type="checkbox"/>



