State of Illinois
Rod R. Blagojevich, Governor

Illinois Environmental Protection Agency
Renee Cipriano, Director

Sixteenth Annual Toxic Chemical Report

December 2004

Illinois
Environmental
Protection Agency

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 *16th Annual Toxic Chemical Report* documents reported releases of toxic chemicals in Illinois for calendar year 2002, the most recent data available.

In 2002, 1,285 facilities in Illinois reported toxic chemical releases of 133,180,128 pounds, which is the 12th 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 2002 increased slightly from 131,841,117 pounds reported for 2001. However, 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 50 million pounds in 2002. This is a 64 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 2002. This 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.

It is also important to understand the limitations of this data. 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.

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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 *16th 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 release 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.

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, with a small increase between 2001 and 2002. However, because of 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.

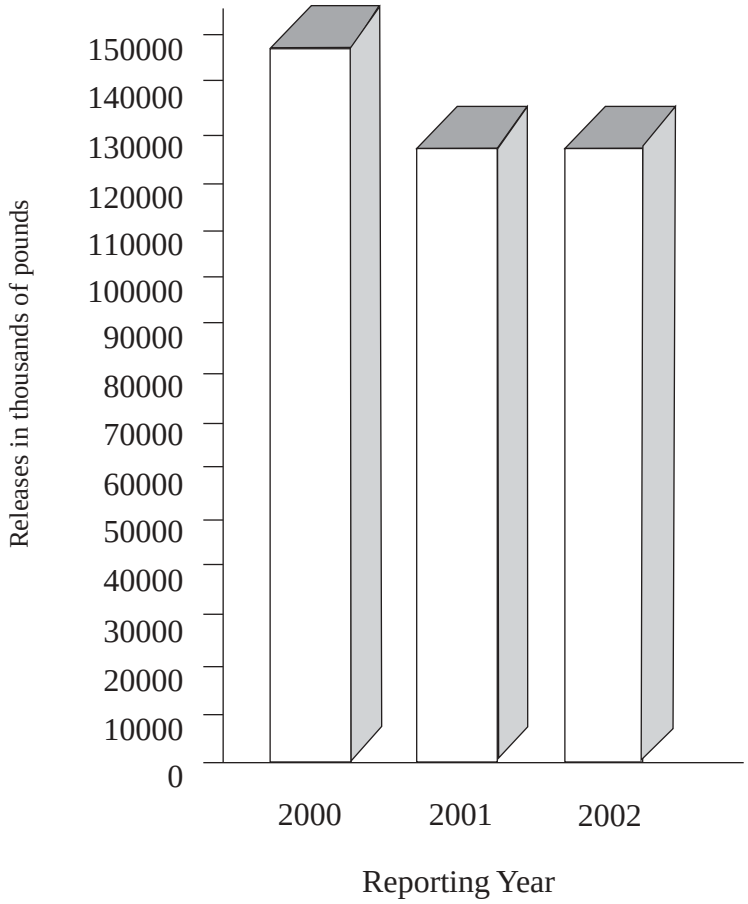
Trends: 1988-2002

Table 1: 2001-2002 On and Off-Site Disposal and Other Reported TRI Releases forIllinois* (2001 Baseline)

	Releases (pounds)	State Rank
2001	**131,841,117****	**12th**
2002	**133,180,128**	**12th**

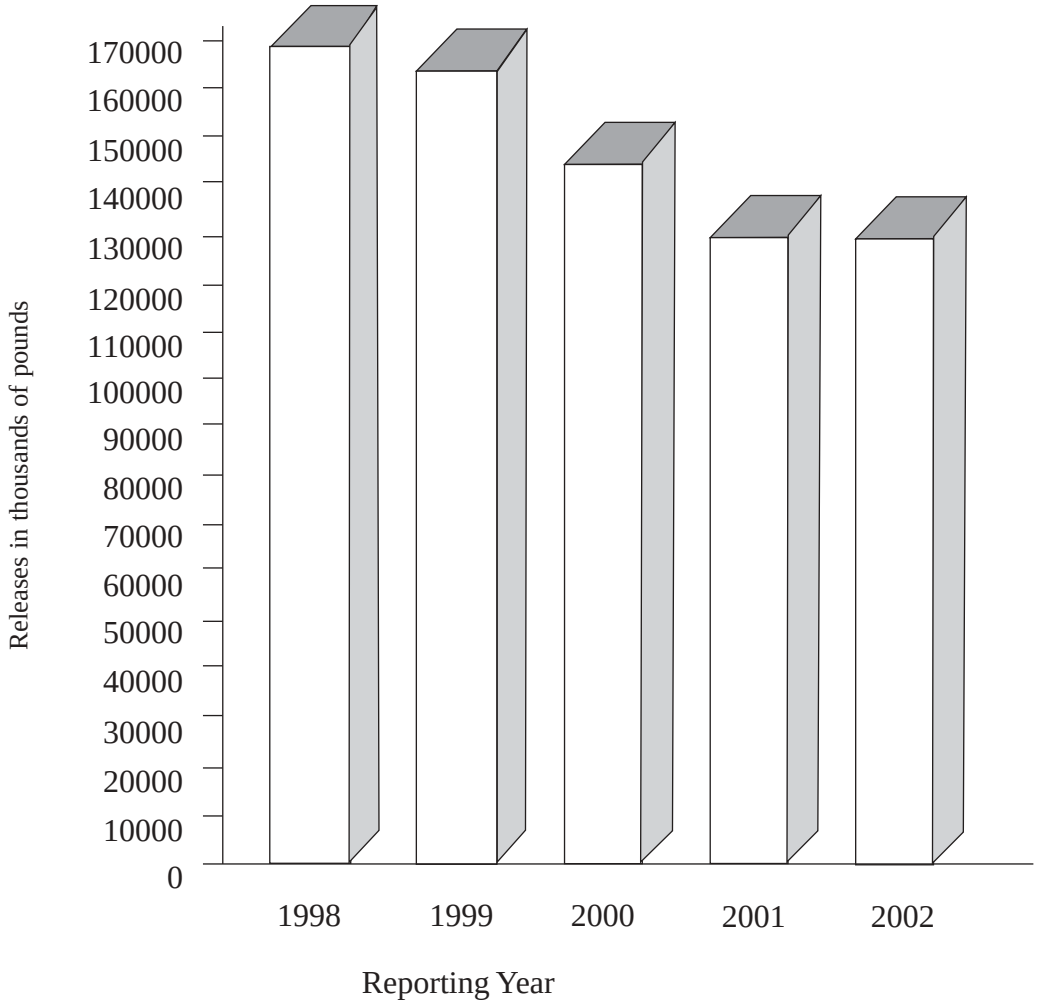
*Includes all chemicals and all industries reporting for 2001 and 2002.
** 2001data has been updated and revised from what was reported in the *Fifteenth Annual Toxic Chemical Report.*

Table 2: 2000-2002 On- and Off-Site Disposal and Other Reported TRI Releases for Illinois. (2000 Baseline)*



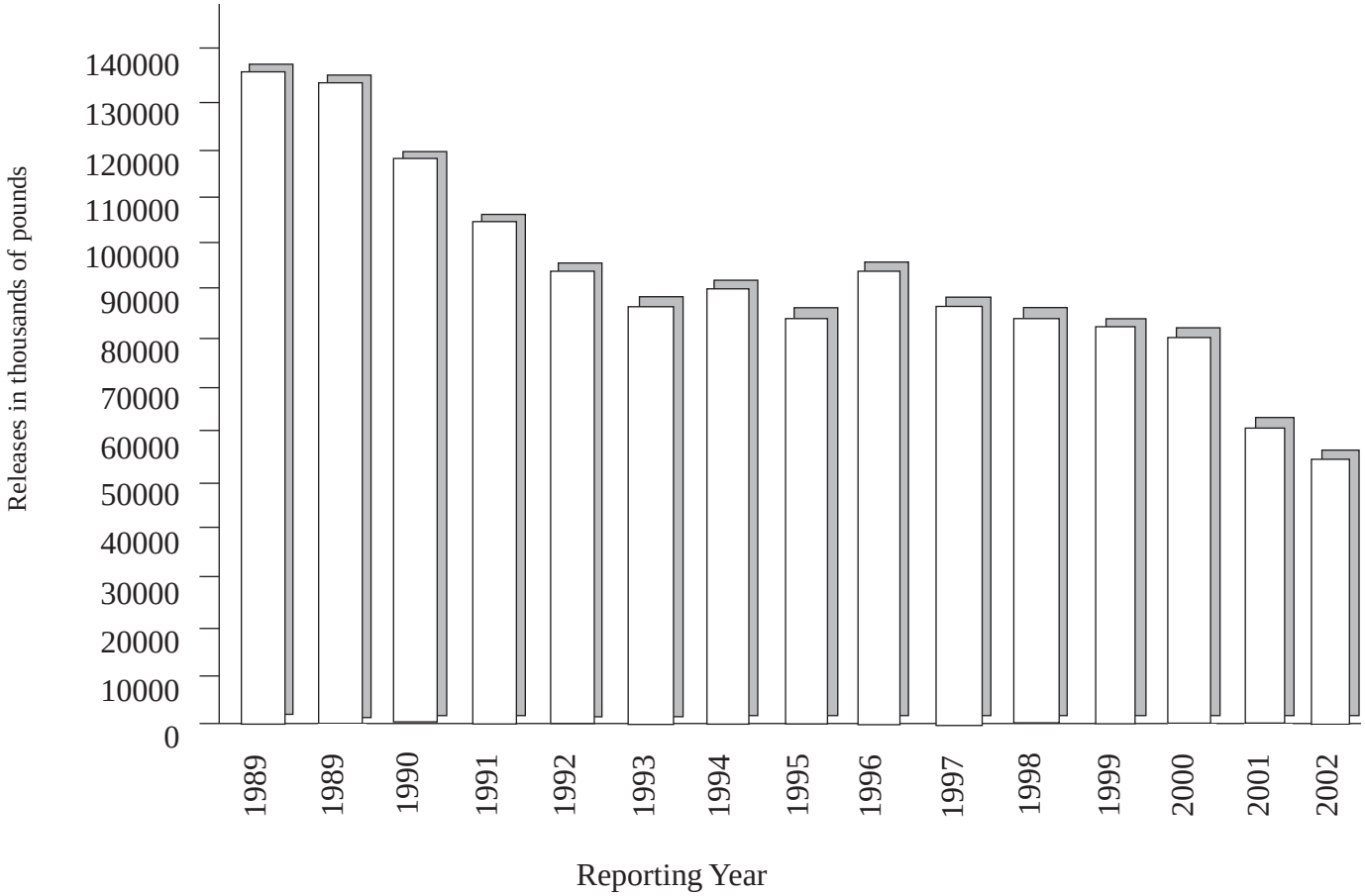
*Excludes lead and lead compounds because reporting thresholds were lowered with the 2001reporting year.

Table 3: 1998-2002 On- and Off-Site Disposal and Other Reported TRI Releases for Illinois (1998 Baseline)*



*Excludes all PBT (persistent, bioaccumulative and toxic) chemicals and vanadium and vanadium compounds. Some PBT chemicals were added and others had their reporting thresholds lowered beginning with the 2000-reporting year. Vanadium's reporting definition was changed and vanadium compounds were added to the list for 2000.

Table 4: 1988-2002 On- and Off-Site Disposal and Other Reported TRI Releases for Illinois (1998 Baseline)*



*Excludes aluminum oxide, ammonia, hydrochloric acid, sulfuric acid, PBT chemicals, vanadium and vanadium compounds and other chemicals added to the TRI list after 1988. Excludes reporting from industries added to the reporting requirements beginning with the 1998 reporting year (metal mining, coal mining, electrical utilities, chemical wholesale distributors, petroleum bulk terminals/bulk storage, hazardous waste treatment facilities and solvent recovery facilities.)

2002 TOXIC CHEMICAL RELEASES

For Calendar year 2002, 133 million pounds of TRI chemicals were reported as released to the environment in Illinois. 1,285 facilities 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 2002 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
2002 - 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	26013185	6859196	32872381
2	COOK	5802345	12556583	18358928
3	MADISON	8481774	2990974	11472748
4	MONTGOMERY	9928014	154051	10082065
5	MACON	4494508	2772195	7266703
6	VERMILION	5907509	8319.02	5915828
7	WILL	4358180	684243.2	5042423
8	ROCK ISLAND	3689662	81211.55	3770874
9	ST CLAIR	1122969	2478676	3601644
10	LA SALLE	1403753	1721706	3125458
11	JASPER	3066417	0	3066417
12	TAZEWELL	819472.3	1409297	2228769
13	RANDOLPH	2120443	148.1	2120591
14	CHRISTIAN	970281.7	1134024	2104305
15	CASS	1924580	0	1924580
16	GRUNDY	1683330	5039	1688369
17	CRAWFORD	1158104	354963.5	1513068
18	PIKE	1328719	0	1328719
19	WINNEBAGO	867688.8	432402.8	1300092
20	JO DAVIESS	1287676	1500	1289176
	All Reported IL Counties			133180128

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

Table 6: Top 20 Facilities
Total On-site and Off-site Disposal or Other Reported Releases (in pounds) of TRI chemicals
2002 - Illinois

	Facility	City	County or Parish or County Equivalent	Zip	Total On Site Disposal or Other Releases	Total Off Site Disposal or Other Releases	Total On & Off Site Disposal or Other Releases
1	**PEORIA DISPOSAL COMPANY #1**	PEORIA	PEORIA	61615	20822432	10	20822442
2	**AMEREN ENERGY GENERATING COFFEEN POWER STATION**	COFFEEN	MONTGOMERY	62017	7482004	151719	7633723
3	**KEYSTONE STEEL & WIRE COMPANY**	PEORIA	PEORIA	61641	675832	6609663	7285495
4	**CLEAN HARBORS SERVICES INC.**	CHICAGO	COOK	60617	250	6113456	6113706
5	**GRANITE CITY STEEL**	GRANITE CITY	MADISON	62040	4699131	1268840	5967971
6	**AMEREN ENERGY RESOURCES GENERATING COMPANY**	BARTONVILLE	PEORIA	61607	3129022	0	3129022
7	**TEEPAK LLC**	DANVILLE	VERMILION	61832	3113500	0	3113500
8	**IBP INC.**	HILLSDALE	ROCK ISLAND	61257	3040635	30325	3070960
9	**AMEREN ENERGY GENERATING NEWTON POWER STATION**	NEWTON	JASPER	62448	3066417	0	3066417
10	**FREEMAN UNITED COAL MINING COMPANY, CROWN 3 MINE**	FARMERSVILLE	MONTGOMERY	62533	2148272	0	2148272
11	**DYNEGY MIDWEST GENERATION INC., BALDWIN ENERGY COMPLEX**	BALDWIN	RANDOLPH	62217	2119944	64	2120008
12	**ENVIRITE OF ILLINOIS INC**	HARVEY	COOK	60426	200	2076324	2076524
13	**BIG RIVER ZINC CORPORATION**	SAUGET	ST CLAIR	62201	165461	1898625	2064086
14	**EXCEL CORPORATION**	BEARDSTOWN	CASS	62618	1924580	0	1924580
15	**ADM COGEN DECATUR**	DECATUR	MACON	62526	423293.2	1489108	1912401
16	**EDISON INTL. POWERTON GENERATING STATION**	PEKIN	TAZEWELL	61554	444751	1407691	1852442
17	**DOMINION KINCAID GENERATION LLC**	KINCAID	CHRISTIAN	62540	706626.7	1134015	1840641
18	**CONOCOPHILLIPS WOOD RIVER REFINERY**	ROXANA	MADISON	62084	1677763	54073.9	1731837
19	**CARUS CHEMICAL COMPANY**	LA SALLE	LA SALLE	61301	7498.201	1654907	1662405
20	**ADM EAST PLANT**	DECATUR	MACON	62526	1590914	0	1590914

Data for every reporting facility in Illinois is available from the U.S. Environmental Protection Agency at **www.epa.gov/tri** or at 202-566-0250.

Table 7: Top 20 Industries
Total On-site and Off-site Disposal or Other Reported Releases (in pounds) of TRI Chemicals
2002 - Illinois

	Standard Industrial Code: Number and Name	Total On-site Disposal or Other Releases	Total Off-site Disposal or Other Releases	Total On- & Off-site Disposal or Other Releases
1	49 - Electric Utilities	27389719	4761482	32151201
2	4953/7389 - RCRA/Solvent Recovery	20884078	8654655	29538733
3	33 - Primary Metals	7735355	13527494	21262850
4	28 - Chemicals	9495462	4173660	13669122
5	20 - Food	11867102	572382.9	12439485
6	Multiple Codes 20-39	4781922	804428.3	5586351
7	30 - Plastics	4722675	512506.7	5235182
8	29 - Petroleum	4798716	116192.2	4914908
9	34 - Fabricated Metals	2801390	2090011	4891401
10	12 - Coal Mining	3249065	0	3249065
11	37 - Transportation Equip.	2078272	440487.2	2518759
12	27 - Printing	1244832	31317	1276149
13	32 - Stone/Clay/Glass	475340.5	320628.2	795968.7
14	35 - Machinery	567648.5	154600.2	722248.7
15	26 - Paper	649865.1	57583.7	707448.8
16	36 - Electrical Equip.	274499.6	245732.1	520231.7
17	24 - Lumber	216666.3	187587.1	404253.4
18	10 - Metal Mining	3048	300337.8	303385.8
19	39 - Miscellaneous	203057.4	8438.51	211496
20	No Reported Codes	56209.55	147692.2	203901.7

Data for all reporting industries, by SIC code, is available from the U.S. Environmental Protection Agency at 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
2002 - Illinois

	Chemical	Total On-site Disposal or Other Releases	Total Off-site Disposal or Other Releases	Total On- & Off-site Disposal or Other Releases
1	ZINC COMPOUNDS	22947032	11980507	34927540
2	HYDROCHLORIC ACID (1995 & AFTER 'ACID AEROSOLS' ONLY)	13835516	0	13835516
3	BARIUM COMPOUNDS	7277963	3525725	10803688
4	MANGANESE COMPOUNDS	5995219	3271433	9266652
5	NITRATE COMPOUNDS	7125198	507093	7632291
6	N-HEXANE	7446627	3555	7450182
7	CHROMIUM COMPOUNDS (EXCEPT CHROMITE ORE MINED IN THE TRANSVAAL REGION)	650511.3	5717041	6367552
8	SULFURIC ACID (1994 & AFTER 'ACID AEROSOLS' ONLY)	4779262	0	4779262
9	LEAD COMPOUNDS	1778593	2048922	3827515
10	CARBON DISULFIDE	3016506	286	3016792
11	HYDROGEN FLUORIDE	2896670	6269	2902939
12	METHANOL	2679062	10994	2690056
13	STYRENE	2099074	496137	2595211
14	AMMONIA	2469113	62899	2532012
15	TOLUENE	2354334	59761	2414095
16	CERTAIN GLYCOL ETHERS	1755791	71731.8	1827523
17	ETHYLENE	1565557	250	1565807
18	XYLENE (MIXED ISOMERS)	1457656	15479.32	1473135
19	CADMIUM COMPOUNDS	344603	1089055	1433658
20	COPPER COMPOUNDS	519308.7	912266.8	1431575

Data for all reported chemicals is available from the U.S. Environmental Protection Agency at www.epa.gov/tri or at 202-566-0250.

APPENDIX A - FORM R

(Note: Due to the length of the instructions for completing Form R, only the form for RY2001 is included in Appendix A.)

Form Approved OMB Number: 2070-0093
Approval Expires: 01/31/2006

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

United States Environmental Protection Agency

FORM R

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

TRI Facility ID Number

Toxic Chemical, Category or Generic Name

WHERE TO SEND COMPLETED FORMS: 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

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

2.1 Are you claiming the toxic chemical identified on page 2 trade secret?

☐ Yes (Answer question 2.2; Attach substantiation forms) ☐ No (Do not answer 2.2; Go to Section 3)

2.2 Is this copy ☐ Sanitized ☐ Unsanitized

(Answer only if "YES" in 2.1)

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

4.1 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)

4.2 This report contains information for: (Important: Check a or b; check c or d if applicable) a. ☐ An entire facility b. ☐ Part of a facility c. ☐ A Federal facility d. ☐ GOCO

4.3 Technical Contact Name

Telephone Number (include area code)

Email Address

4.4 Public Contact Name

Telephone Number (include area code)

4.5 SIC Code (s) (4 digits)	Primary a.	b.	c.	d.	e.	f.

4.6 Latitude	Degrees	Minutes	Seconds	Longitude	Degrees	Minutes	Seconds

4.7 Dun & Bradstreet Number (s) (9 digits)	4.8 EPA Identification Number (RCRA ID No.) (12 characters)	4.9 Facility NPDES Permit Number(s) (9 characters)	4.10 Underground Injection Well Code (UIC) I.D. Number(s) (12 digits)
a.	a.	a.	a.
b.	b.	b.	b.

SECTION 5. PARENT COMPANY INFORMATION

5.1 Name of Parent Company NA ☐

5.2 Parent Company's Dun & Bradstreet Number NA ☐

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 **Distribution of Each Member of the Dioxin and Dioxin-like Compounds Category.**
(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.)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
NA ☐																	

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:

a. ☐ Produce b. ☐ Import

If produce or import

c. ☐ For on-site use/processing
d. ☐ For sale/distribution
e. ☐ As a byproduct
f. ☐ As an impurity

3.2 Process the toxic chemical:

a. ☐ As a reactant
b. ☐ As a formulation component
c. ☐ As an article component
d. ☐ Repackaging
e. ☐ As an impurity

3.3 Otherwise use the toxic chemical:

a. ☐ As a chemical processing aid
b. ☐ As a manufacturing aid
c. ☐ Ancillary or other use

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

4.1 ☐ (Enter two digit code from instruction package.)

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 ☐			
5.2	Stack or point air emissions	NA ☐			
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	Underground Injection onsite to Class I Wells	☐		
5.4.2	Underground Injection onsite to Class II-V Wells	☐		
5.5	Disposal to land onsite			
5.5.1A	RCRA Subtitle C landfills	☐		
5.5.1B	Other landfills	☐		
5.5.2	Land treatment/application farming	☐		
5.5.3A	RCRA Subtitle C surface impoundments	☐		
5.5.3B	Other surface impoundments	☐		
5.5.4	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)

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

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

FORM R

PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI Facility ID Number

Toxic Chemical, Category or Generic Name

SECTION 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)

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**	1		2		3		4	**7A.1c**	**7A.1d**	**7A.1e**
	5		6		7		8			%	**Yes** ☐ **No** ☐
7A.2a	**7A.2b**	1		2		3		4	**7A.2c**	**7A.2d**	**7A.2e**
	5		6		7		8			%	**Yes** ☐ **No** ☐
7A.3a	**7A.3b**	1		2		3		4	**7A.3c**	**7A.3d**	**7A.3e**
	5		6		7		8			%	**Yes** ☐ **No** ☐
7A.4a	**7A.4b**	1		2		3		4	**7A.4c**	**7A.4d**	**7A.4e**
	5		6		7		8			%	**Yes** ☐ **No** ☐
7A.5a	**7A.5b**	1		2		3		4	**7A.5c**	**7A.5d**	**7A.5e**
	5		6		7		8			%	**Yes** ☐ **No** ☐

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.)

*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 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 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐

6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐

SECTION 8. SOURCE REDUCTION AND RECYLING 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*)
8.1					
8.1a	Total on-site disposal to Class I Underground InjectionWells, RCRA Subtitle C landfills, and other landfills				
8.1b	Total other on-site disposal or other releases				
8.1c	Total off-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills				
8.1d	Total other off-site disposal or other releases				
8.2	Quantity used for energy recovery onsite				
8.3	Quantity used for energy recovery offsite				
8.4	Quantity recycled onsite				
8.5	Quantity recycled offsite				
8.6	Quantity treated onsite				
8.7	Quantity treated offsite				
8.8	Quantity released to the environment as a result of remedial actions, catastrophic events, or one-time events not associated with production processes (pounds/year)*				
8.9	Production ratio or activity index				

8.10 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)		
8.10.1		**a.**	**b.**	**c.**
8.10.2		**a.**	**b.**	**c.**
8.10.3		**a.**	**b.**	**c.**
8.10.4		**a.**	**b.**	**c.**

8.11 Is additional information on source reduction, recycling , or pollution control activities included with this report? (Check one box) ☐ Yes ☐ No

*For Dioxin or Dioxin-like compounds, report in grams/year