



PollutionWatch

PollutionWatch



ENVIRONMENTAL DEFENCE

CANADIAN ENVIRONMENTAL LAW
ASSOCIATION

What is PollutionWatch?

- Interactive web-based tool for accessing information on pollution in Canada
- Created and maintained by Canadian Environmental Law Association and Environmental Defence (ENGOS)
- Uses data (toxics, Criteria Air Contaminants) from the Canadian federal National Pollutant Release Inventory (NPRI)
- Recently added data on greenhouse gas emissions (federal government database)

National Pollutant Release Inventory

- Data is published by Environment Canada
- Most recent NPRI data available on PollutionWatch is 2003
- 2004 NPRI data will be live on PollutionWatch in December 2006
- 2005 NPRI data will be available on PollutionWatch once downloadable data is posted

Response to PollutionWatch

Launched in April, 2001

- Number of visitors to PollutionWatch has steadily increased
 - Oct. 2003: 183,000 hits
 - Oct. 2004: 137,000 hits
 - Oct. 2005: 1.1 million hits
 - Oct. 2006: 1.2 million hits
 - 2006: range from 900,000 to 1.3 million hits per month
- Used by ENGOs, students, journalists, researchers, community groups, financial experts, real estate representatives etc.

PollutionWatch Uses

- PollutionWatch partners have used the site to:
 - Support policy and program work
 - Coordinate with community groups working on local issues
 - Promote access to information/community right to know

PollutionWatch Features

- Enhanced community right to know:
 - Health effects lists
 - Ranking (by company, facility, sector, pollutant, province, Great Lakes, health effects, etc.)
 - Time trends
 - Action tools - email facilities

PollutionWatch Homepage



PollutionWatch

Get answers about pollution in your community



ENTER YOUR POSTAL CODE
 ?

About PollutionWatch

▶ Greenhouse gas emitters exposed [more](#)

How to use PollutionWatch

▶ Find out which facilities are emitting greenhouse gases in your community [more](#)

Who is Polluting?

▶ New PollutionWatch fact sheet: National Greenhouse Gas Pollution Highlights [more](#)

Pollution Rankings

Pollution Timelines

Environmental Laws

Press Room

Take Action

Lesson Plans for Teachers

Ressources Francaises

Maps

Search PollutionWatch

What's New

Great Lakes Pollution



Top 10 Greenhouse Gas Emitters

Rank	Company Name (may have more than one facility reporting)	Province
1	Ontario Power Generation	ON
2	Transalta Utilities Corporation	AB
3	Saskatchewan Power Corporation	SK
4	Alberta Power (2000) Ltd.	AB
5	Nova Scotia Power Incorporated	NS
6	Syncrude Canada Ltd.	AB
7	Suncor Energy Inc. Oil Sands	AB
8	EPCOR Generation Inc.	AB
9	Petro-Canada	AB
10	Dofasco Inc	ON

Ranking



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Search PollutionWatch

Who is Polluting?

Use this search to find out who is polluting (facility, company, sector). If you are interested in air pollutants related to global climate change, choose to view [Greenhouse Gas pollution](#). If you want information on pollutants sent to the air, water and land that may cause contamination, search [toxic NPRI reported pollution](#). If you are interested in air pollutants related to smog and acid rain, choose to view [Criteria Air Contaminants \(CACs\)](#). You can also choose various combinations of the three types of pollutants.

Select a YEAR:

Enter any part of a COMPANY
NAME:

Enter any part of a FACILITY
name:

Enter a Postal Code:

(Example: M, M1, M1K) ?

Select a PROVINCE:

Select Pollution Data Source:

Select a GAS

Select a GAS chemical:

Select a Industry:

Select Unit:

tonnes tonnes CO₂ equivalent

Alphabetically by COMPANY

Highest to Lowest Amount

Lowest to Highest Amount

Display My List:

Ranking

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?

Who is Polluting?

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About PollutionWatch	<input type="radio"/>
How to use PollutionWatch	<input type="radio"/>
Who is Polluting?	<input type="radio"/>
Pollution Rankings	<input type="radio"/>
Pollution Timelines	<input type="radio"/>
Environmental Laws	<input type="radio"/>
Press Room	<input type="radio"/>
Take Action	<input type="radio"/>
Lesson Plans for Teachers	<input type="radio"/>
Ressources Francaises	<input type="radio"/>
Maps	<input type="radio"/>
Search PollutionWatch	<input type="radio"/>

Select a YEAR:

Enter any part of a COMPANY NAME:

Enter any part of a FACILITY name:

Enter a Postal Code: (Example: M, M1, M1K) ?

Select a PROVINCE:

Select a POLLUTION TYPE:

Select the Air Release TYPE:

Select a HEALTH EFFECT category:

Select a POLLUTANT:

Select a SECTOR (2 code):

Select a SECTOR (4 code):

Display My List:

Alphabetically by COMPANY

Highest to Lowest Amount

Ranking



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QUERY RESULTS

[Create Another L](#)
[Printer Friendly Form](#)
[Download the L](#)

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Search PollutionWatch

Search Parameters:

Province: Across Canada

Pollution Type: Total Reported Releases & Transfers with Combined Air Release

Year: 2003

Please note:

- The units of measurement for Greenhouse Gas data are presented in tonnes or tonnes CO₂ (carbon dioxide) equivalent. The units of measurement for NPRI data are presented in kilograms (kg), excluding hexachlorobenzene which is measured in gram (g) and dioxins/furans which are measured in grams (g) TEQ.
- Recycling data is not included in total releases or transfers data. To obtain recycling data, please go to [Who is Polluting?](#) or [Pollution Rankings.](#)

Rank	Facility	Company Name	Total Amount	National Ranking	Province
1	Thompson Operations	Inco Limited	192,371,127	1	MB
2	Copper Cliff Smelter Complex	Inco Limited	169,279,714	2	ON
3	HBM&S Co., Ltd. - Metallurgical Complex	Hudson Bay Mining and Smelting Company Ltd.	168,797,457	3	MB
4	Nanticoke Generating Station	Ontario Power Generation	138,789,781	4	ON
5	Mildred Lake Plant Site	Syncrude Canada Ltd.	120,040,366	5	AB
6	Lingan Generating Station	Nova Scotia Power Incorporated	80,192,531	6	NS
7	Usine Alma	Alcan Inc.	69,318,040	7	QC
8	Aluminerie de Bécancour Inc.	Aluminerie de Bécancour Inc.	68,141,574	8	QC
9	Boundary Dam Power Station	SaskPower	65,164,112	9	SK
10	Fonderie Horne	Noranda Inc.	64,137,171	10	QC

Health Effects Lists

- CEPA Toxics
- Carcinogens
- Endocrine Disrupters
- Respiratory Toxicants
- Reproductive/Development Toxicants
- Ozone Depleting Substances

Health Effects Lists

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Search PollutionWatch

Search Parameters:

Province: Across Canada

Pollution Type: Air Releases of Combined (Without VOC)

Health Effect: Carcinogens

Year: 2003

Please note:

- The units of measurement for Greenhouse Gas data are presented in tonnes or tonnes CO₂ (carbon dioxide) equivalent. The units of measurement for NPRI data are presented in kilograms (kg), excluding hexachlorobenzene which is measured in gram (g) and dioxins/furans which are measured in grams (g) TEQ.
- Recycling data is not included in total releases or transfers data. To obtain recycling data, please go to [Who is Polluting?](#) or [Pollution Rankings](#).

Rank	Facility	Company Name	Total Amount	National Ranking	Province
1	Grand Prairie OSB Mill	Ainsworth Lumber Co. Ltd.	309,220	1	AB
2	Stauffer	Newalta Corporation	298,917	2	AB
3	Hughenden	Newalta Corporation	284,329	3	AB
4	Miramichi OSB	Weyerhaeuser Company Limited	188,012	4	NB
5	Stelco Hamilton	Stelco Inc.	178,562	5	ON
6	Elk Point	Newalta Corporation	177,876	6	AB
7	Timmins Oriented Strand Board Plant	Grant Forest Products Inc.	174,800	7	ON
8	Thompson Operations	Inco Limited	164,105	8	MB
9	Sundance Forest Industries Ltd.	Sundance Forest Industries Ltd.	154,207	9	AB
10	Tube Production Unit	Sandvik Materials Technology	148,535	10	ON

Health Effects Lists



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- [Search PollutionWatch](#)

Search Parameters:
 Province: Alberta
 Pollution Type: Air Releases of Combined (Without VOC)
 Health Effect: CEPA Toxic Substances
 Year: 2003

Please note:

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Rank	Facility	Company Name	Total Amount	National Ranking	Province
1	Sundance Generating Facility	TransAlta Utilities Corporation	26,455,739	2	AB
2	Mildred Lake Plant Site	Syncrude Canada Ltd.	14,386,561	5	AB
3	Genesee Thermal Generating Station	EPCOR Generation Inc.	13,344,145	9	AB
4	Kepphills Generating Facility	TransAlta Utilities Corporation	12,625,483	10	AB
5	Sheerness Generating Station	Sheerness Station	12,117,999	11	AB
6	Battle River Generating Station	ATCO Power	11,670,395	12	AB
7	Suncor Energy Inc. Oil Sands	Suncor Energy Inc.	9,927,079	14	AB
8	Wabamun Generating Station	TransAlta Utilities Corporation	8,072,379	17	AB
9	Canadian Fertilizers Limited	Canadian Fertilizers Limited	3,958,173	32	AB
10	Bonnie Glen Gas Plant	Imperial Oil Resources Limited	3,370,750	37	AB

Time Trends



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Create a Pollution Timeline

Use this search to view trends in releases and transfers of toxic pollutants from 1995 to 2003. You can search for trends by health effect, type of pollution, sector, facility or company.

Pollution Type:

On-site Releases

Health Effect:

All

Province:

All

Main Sector:

All

Sub Sector:

All

Company:

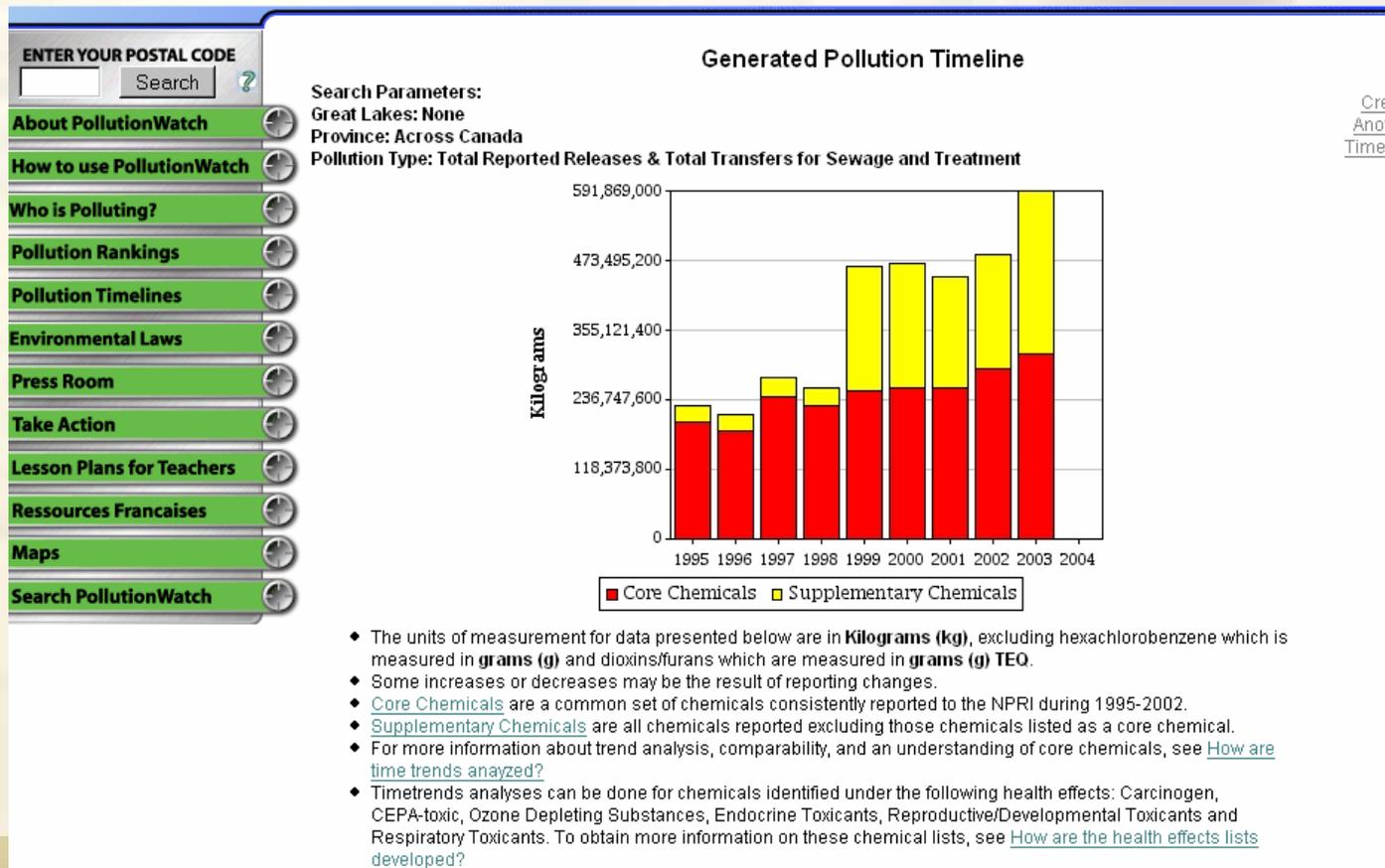
Facility:

Postal Code:

(Example: M, M1, M1K) ?

CREATE TIMELINE

Time Trends



Time Trends

Pollution Timeline Data are also shown in the following table: (Comming soon ... NPRI 2004 data)

	<<	1998	1999	2000	2001	2002	2003	2004
Core Chemicals	-	225,523,720	252,389,159	258,265,817	257,167,221	290,714,696	314,364,435	0
Air Releases	-	102,066,470	103,399,305	107,728,846	102,845,139	107,945,544	104,584,666	0
Water Releases	-	17,176,153	21,161,848	47,379,497	52,515,871	76,845,857	95,549,363	0
Land Releases (On & Off-site)	-	58,620,715	77,353,213	45,620,852	43,987,587	45,373,068	54,002,077	0
Underground Injections (On & Off-site)	-	17,870,792	20,706,980	21,980,383	21,506,242	20,156,894	22,094,053	0
Transfers for Sewage	-	9,193,587	9,837,249	12,041,041	14,315,238	15,523,218	12,604,908	0
Transfers for Treatment	-	20,440,242	19,770,500	23,367,568	21,852,239	24,710,573	25,384,014	0
Supplementary Chemicals	-	32,081,982	210,569,849	211,984,521	189,263,858	193,962,834	277,503,987	0
Air Releases	-	11,523,528	21,798,871	22,613,146	21,836,355	20,093,552	25,164,915	0
Water Releases	-	114,167	176,824	152,918	190,782	204,883	6,764,353	0
Land Releases (On & Off-site)	-	12,929,355	61,387,216	25,054,112	13,241,705	12,690,504	23,740,179	0
Underground Injections (On & Off-site)	-	3,037,989	122,273,222	159,288,591	148,904,102	155,858,063	210,826,521	0
Transfers for Sewage	-	105,263	217,483	326,333	358,348	503,003	1,147,830	0
Transfers for Treatment	-	4,334,808	4,674,515	4,507,356	4,696,704	4,577,877	9,819,501	0

Mapping by Address (sneak preview)

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ENTER YOUR POSTAL CODE
 ?

Map Search Pollution Watch

Search Year: Pollution Source:

Pollution Type: Pollutant:

Search Range: KM

Your home address:



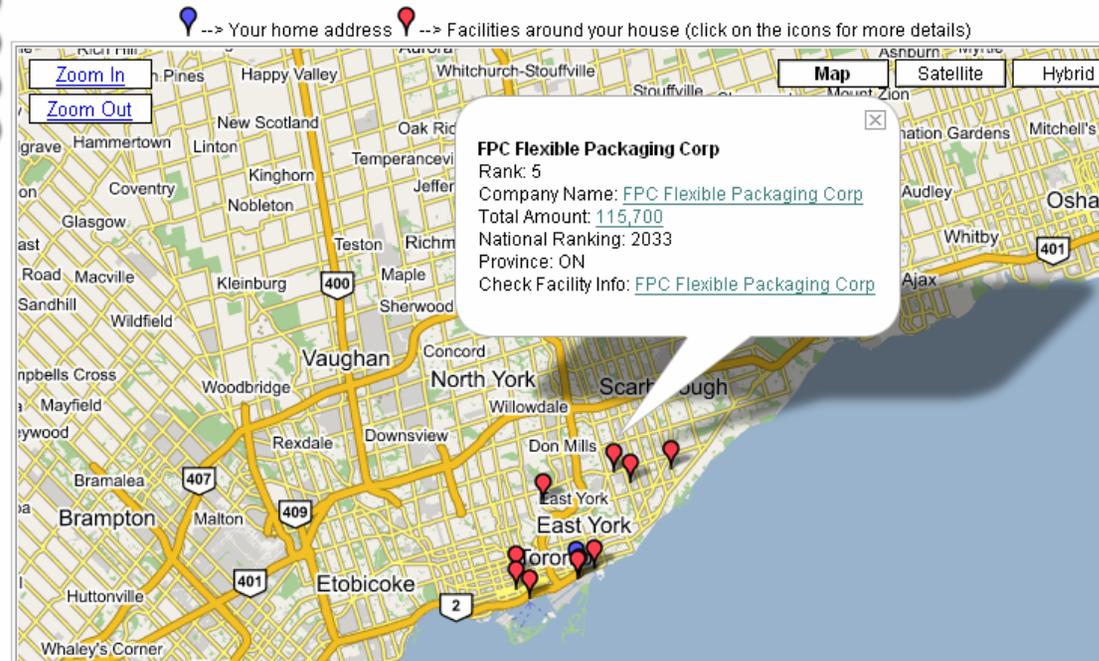
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- Recycling data is not included in total releases or transfers data. To obtain recycling data, please go to [Who is Polluting?](#) or [Pollution Rankings](#).

Total 33 facilities found. Pages: [(1) |< First] 1 2 3 4 [Next >> (2)] [Last >| (4)]



Action Tools



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Fax/Email this facility

About PollutionWatch



[\[French Version\]](#)

How to use PollutionWatch



Please feel free to edit the content of the fax letter as you see fit.

Who is Polluting?



Pollution Rankings



Pollution Timelines



Environmental Laws



Press Room



Take Action



Lesson Plans for Teachers



Ressources Francaises



Date: Nov 23, 2006

To: Mr. Robert Lyng

Re:

Dear Mr. Lyng:

Re: Release and transfer data from your facility

As a Canadian, I am writing today to express my concern about the pollutants being generated by your facility.

I have recently used the PollutionWatch web site (www.PollutionWatch.org) to review your facility's pollutant data as

Reports and Fact Sheets

- Publish PollutionWatch reports and fact sheets (available on web site under Press Room)
 - Great Lakes Reports: Canadian facilities; comparison between Canadian and US facilities
 - Fact Sheets: Annual national and provincial overviews

Scorecard.org

Scorecard

THE POLLUTION INFORMATION SITE

Investigate Pollution Topics

TOXICS

- Toxic Chemical Releases
- Lead Hazards
- Superfund

AIR

- Smog and Particulates
- Hazardous Air Pollutants

WATER

- Clean Water Act
- Watershed Indicators

AGRICULTURE

- Animal Waste

ENVIRONMENTAL JUSTICE

- Community Center
- En Español

HEALTH HAZARDS

- Chemical Profiles
- Health Effects
- Regulations

Pollution in Your Community

Get an in-depth pollution report for your county, covering air, water, chemicals, and more.

Your Zip Code:

[GET REPORT ▶](#)

More Facts on Pollution

Get answers to the most commonly asked questions on nationwide pollution.

Who's polluting?

What pollutants do the most harm?

Where is the worst pollution?

Compare communities and states.

Search by company, location, or chemical.

Take Action: Oppose EPA's efforts to weaken pollution reporting



[Tell EPA not to weaken pollution reporting!](#)

USE THIS INFORMATION

Learn how Scorecard visitors [use this information](#) to protect and educate their communities.

WAYS YOU CAN HELP

▶ [Tell EPA not to weaken pollution reporting!](#)

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Scorecard.org Ranking

POLLUTION RANKINGS | [Toxic Chemical Releases](#) | By Facility

Facilities Releasing TRI Chemicals to the Environment

Ranked by (select your ranking criteria)

Total environmental releases

in

Entire United States

from

All reporting sectors

Go

[\(explain\)](#)

Rank Facility

		Pounds
1.	RED DOG OPS. , 90 MILES N. OF KOTZEBUE, KOTZEBUE, AK	481,578,816
2.	NEWMONT MINING CORP. TWIN CREEKS MINE , 35 MILES N.E. OF GOLCONDA, GOLCONDA, NV	291,128,400
3.	BHP COPPER N.A. SAN MANUEL OPS. , 200 S. REDDINGTON RD., SAN MANUEL, AZ	248,695,440
4.	KENNECOTT UTAH COPPER MINE CONCENTRATORS & POWER PLANT , 12300 S. UTAH HWY. 111, COPPERTON, UT	113,640,793
5.	BARRICK GOLDSTRIKE MINES INC. , 27 MILES N. OF CARLIN, ELKO, NV	79,410,838
6.	NEWMONT MINING CORP. LONE TREE MINE , STONEHOUSE EXIT 212, VALMY, NV	58,686,703
7.	NEWMONT MINING CORP. CARLIN SOUTH AREA , 6 MILES N. OF CARLIN, CARLIN, NV	43,143,578
8.	KENNECOTT GREENS CREEK MINING CO. , 13401 GLACIER HWY., JUNEAU, AK	37,103,243
9.	ASARCO INC. RAY COMPLEX HAYDEN SMELTER & CONCENTRATOR , 640 ASARCO AVE., HAYDEN, AZ	34,941,191

Scorecard.org Rankings - Location

Counties with Reported Releases of TRI Chemicals to the Environment

Ranked by (select your ranking criteria)

Total environmental releases

in

Entire United States

Go

[\(explain\)](#)

Rank	County	Pounds
1.	NORTHWEST ARCTIC, AK	481,584,142
2.	HUMBOLDT, NV	351,121,741
3.	PINAL, AZ	251,204,351
4.	SALT LAKE, UT	139,708,476
5.	ELKO, NV	83,566,543
6.	GILA, AZ	57,713,118
7.	BRAZORIA, TX	50,421,721
8.	EUREKA, NV	43,657,567
9.	ESCAMBIA, FL	38,244,389
10.	JUNEAU, AK	37,103,243
11.	HUMPHREYS, TN	35,831,839
12.	HARRIS, TX	34,126,686
13.	OWYHEE, ID	28,895,392
14.	REYNOLDS, MO	27,408,816
15.	SPENCER, IN	26,507,023
16.	PEORIA, IL	26,013,185
17.	ORANGE, FL	25,431,126
18.	JEFFERSON, TX	25,167,891
19.	ASCENSION, LA	23,329,687

Scorecard.org Chemical Lists

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- Lead Hazards
- Superfund

AIR

- Smog and Particulates
- Hazardous Air Pollutants

WATER

- Clean Water Act
- Watershed Indicators

AGRICULTURE

- Animal Waste

ENVIRONMENTAL JUSTICE

- Community Center
- En Español

HEALTH HAZARDS

- Chemical Profiles
- Health Effects
- Regulations

CHEMICAL PROFILES | Main Page

Scorecard provides detailed information on [more than 11,200 chemicals](#), including all the chemicals used in large amounts in the United States and all the chemicals regulated under major environmental laws. You can search for information by typing in the chemical's name (or any common synonym) or the chemical's standard identification number (Chemical Abstracts Service or CAS registry number).

Chemical Profile Search

Search by Chemical Name

Go

Search by CAS Number

Go

For the 650 chemicals covered by the Toxics Release Inventory (TRI) in the United States, Scorecard lets you identify which are released or managed in the greatest quantity in your area. Scorecard tracks TRI chemicals using forty different ranking criteria, allowing you to select for chemicals in a specific TRI category (e.g., air releases), health effects category (e.g., air releases of recognized carcinogens), or risk-weighted category (e.g., ozone depleting potential).

Rank Chemicals by Reported Environmental Releases in the United States

Ranked by

Total environmental releases



in

Entire United States



Go

Scorecard.org Chemical Lists

CHEMICAL PROFILES | Chemical Profile

Chemical: LEAD

CAS Number: 7439-92-1

Chemical Profile for LEAD (CAS Number: 7439-92-1)

1. [Human Health Hazards](#)
2. [Hazard Rankings](#)
3. [Chemical Use Profile](#)
4. [Rank Chemicals by Reported Environmental Releases in the United States](#)
5. [Regulatory Coverage](#)
6. [Basic Testing to Identify Chemical Hazards](#)
7. [Information Needed for Safety Assessment](#)
8. [Links](#)

◆ [Human Health Hazards](#)

Health Hazard

Recognized: [Carcinogen](#)
[Developmental Toxicant](#)
[Reproductive Toxicant](#)

Reference(s)

[P65](#)
[P65](#)
[P65](#)

Scorecard.org Chemical Lists

HEALTH HAZARDS

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- ▶ [Health Effects](#)
- ▶ [Regulations](#)

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SEARCH SCORECARD

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Human Health Hazards

Health Hazard

Reference(s)

Recognized: [Carcinogen](#)

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Suspected: [Cardiovascular or Blood Toxicant](#)

[BENO EPA-HEN HAZMAP KLAA KRIS LADO MALA STAC](#)

[Endocrine Toxicant](#)

[BRUC IL-EPA KEIT WWF](#)

[Gastrointestinal or Liver Toxicant](#)

[EPA-HEN RTECS STAC](#)

[Immunotoxicant](#)

[IPCS](#)

[Kidney Toxicant](#)

[EPA-HEN HAZMAP KLAA LAND MERCK STAC](#)

[Neurotoxicant](#)

[DAN EPA-HEN EPA-SARA FELD HAZMAP KLAA LU RTECS](#)

[STAC](#)

[Respiratory Toxicant](#)

[NEME](#)

[Skin or Sense Organ Toxicant](#)

[KLAA](#)

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Scorecard.org Chemical Lists

Links

[Additional information about this chemical may be available elsewhere in Scorecard.](#)

Other web sites specific to this chemical:

1. [Agency for Toxic Substances and Disease Registry Public Health Statement](#)
2. [Agency for Toxic Substances and Disease Registry ToxFAQ](#)
3. [Agency for Toxic Substances and Disease Registry Toxicological Profile](#)
4. [CalEPA Air Resources Board Toxic Air Contaminant Summary](#)
5. [EPA Air Quality Criteria for Lead: Supplement](#)
6. [EPA Integrated Risk Information System Report](#)
7. [EPA Office of Ground Water and Drinking Water Contaminant Fact Sheet](#)
8. [IPCS International Chemical Safety Card](#)
9. [International Toxicity Estimates for Risk \(ITER\) from Toxicology Excellence for Risk Assessment](#)
10. [National Health and Nutrition Examination Survey Report on Human Exposure to Environmental Chemicals](#)
11. [National Institute for Occupational Safety and Health Pocket Guide to Chemical Hazards](#)
12. [National Institute of Environmental Health Report](#)
13. [New Jersey Fact Sheet](#)

If none of these sources meet your needs, you can try searching [some other chemical database Web sites.](#)

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Scorecard.org Health Effects Lists

Scorecard

THE POLLUTION INFORMATION SITE

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HEALTH EFFECTS | Main Page

Using information from scientific sources and regulatory agencies, Scorecard provides listings of the chemicals that cause cancer, harm the immune system, contribute to birth defects, or lead to any of nine other types of health impacts. Chemicals whose health hazards are widely [recognized](#) by authoritative scientific organizations are separated from chemicals whose health hazards are [suspected](#) on the basis of more limited data.

Lists are available for 12 different adverse health effects. Select "recognized" or "suspected" to retrieve a list of chemicals that are associated with a specific health effect. For each chemical on a list, Scorecard links to a comprehensive profile and summarizes the scientific reference(s) that document that chemical's association with health hazard.

Cancer

- ◆ [Recognized](#)
- ◆ [Suspected](#)

Developmental Toxicity

- ◆ [Recognized](#)
- ◆ [Suspected](#)

Reproductive Toxicity

- ◆ [Recognized](#)
- ◆ [Suspected](#)

Cardiovascular or Blood Toxicity

- ◆ [Suspected](#)

Scorecard.org Health Effects Lists

HEALTH EFFECTS | CARCINOGENS

CARCINOGENS

Hundreds of chemicals are capable of inducing cancer in humans or animals after prolonged or excessive exposure. There are many well-known examples of chemicals that can cause cancer in humans. The fumes of the metals cadmium, nickel, and chromium are known to cause lung cancer. Vinyl chloride causes liver sarcomas. Exposure to arsenic increases the risk of skin and lung cancer. Leukemia can result from chemically induced changes in bone marrow from exposure to benzene and cyclophosphamide, among other toxicants. Other chemicals, including benzo[a]pyrene and ethylene dibromide, are considered by authoritative scientific organizations to be probably carcinogenic in humans because they are potent carcinogens in animals. Chemically-induced cancer generally develops many years after exposure to a toxic agent. A latency period of as much as thirty years has been observed between exposure to asbestos, for example, and incidence of lung cancer.

[References used to compile the list of Carcinogens](#)

Recognized Carcinogens

Note: For your convenience, these data are also available as a CSV file. Click [here](#) to download.

Chemical Name	CAS Registry Number (or EDF Substance ID)	Reference(s)
(1,1'-BIPHENYL)-4,4'-DIAMINE, 3,3'-DIMETHYL-	119-93-7	P65
(1,1'-BIPHENYL)-4,4'-DIAMINE, 3,3'-DIMETHYL-, DIHYDROCHLORIDE (9CI)	612-82-8	P65
(1,2-BENZENEDICARBOXYLATO(2-))DIOXOTRILEAD	69011-06-9	P65-MC
(DIBUTYLDITHIOCARBAMATO)NICKEL(II)	13927-77-0	P65-MC
1,1'-BI(ETHYLENE OXIDE)	1464-53-5	P65
1,1,2,2-TETRACHLOROETHANE	79-34-5	P65
1,1,2,2-TETRAFLUROETHYLENE	116-14-3	P65
1,1,2-TRICHLOROETHANE	79-00-5	P65
1,1-DICHLOROETHANE	75-34-3	P65
1,1-DIMETHYL HYDRAZINE	57-14-7	P65
1,2,3,4,5,6-HEXACHLOROCYCLOHEXANE (MIXTURE OF ISOMERS)	608-73-1	P65

Questions?

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