



# Toxics Release Inventory 2008 California Report

U.S. EPA Region 9: California, Arizona, Nevada, Hawaii, the Pacific Islands, and Tribal Nations

## California's Releases

In 2008, 1,336 facilities reported a total of 44 million pounds of toxic chemical releases. California's total reported on-site and off-site releases decreased 21% (12 million pounds), when compared to 2007 data.

## What is a Release?

A TRI "release" is defined as the amount of a toxic chemical released on-site (to air, water, underground injection, landfills, and other land disposal), and the amount transferred off-site for disposal.

### Total Releases for Reporting Years 2006 – 2008

Year	Air	Water	On-Site Land	Underground Injection	Off-Site
2006	16,899,520	5,018,431	14,259,549	50,938	8,981,037
2007	15,253,412	4,058,695	27,503,142	69,922	9,059,482
2008	12,471,128	2,227,272	23,719,878	104,807	5,420,739

## Releases to the Environment

**Air:** Air releases decreased 18% (2.8 million pounds) since 2007.

**Water:** Water releases decreased 45% (1.8 million pounds) since 2007.

**On-Site Land:** On-site land releases decreased 14% (3.4 million pounds) since 2007

**Underground Injection:** Underground Injection releases increased 50% (34, 885 pounds) since 2007.

**Off-Site Transfers:** Total off-site transfers have decreased 40% (3.4 million pounds) since 2007.

## Facilities with Largest Chemical Releases

The top facilities in California for total on-site and off-site releases of chemicals are:

	Facility Name	City	County	Total Releases
1	CHEMICAL WASTE MANAGEMENT INC.	KETTLEMAN CITY	Kings, CA	15,966,454
2	WESTERN MESQUITE MINES INC.	BRAWLEY	Imperial, CA	4,092,180
3	CLEAN HARBORS BUTTONWILLOW LLC	BUTTON-WILLOW	Kern, CA	1,662,201
4	VALERO REFINING CO - CALI FORNIA BENICIA REFINERY	BENICIA	Solano, CA	1,611,849
5	SHELL OIL PRODUCTS US - MARTINEZ REFINERY	MARTINEZ	Contra Costa, CA	883,422
6	CHEVRON PRODUCTS CO. DIV. OF CHEVRON USA INC.	EL SEGUNDO	Los Angeles, CA	862,304
7	CHEVRON PRODUCTS CO. RICHMOND REFINERY	RICHMOND	Contra Costa, CA	808,729
8	TESORO REFINING & MARKETING CO.	MARTINEZ	Contra Costa, CA	761,889
9	EXIDE TECHNOLOGIES	LOS ANGELES	Los Angeles, CA	730,496
10	CONOCOPHILLIPS SAN FRANCISCO REFINERY	RODEO	Contra Costa, CA	711,139

## Top 10 Released Chemicals

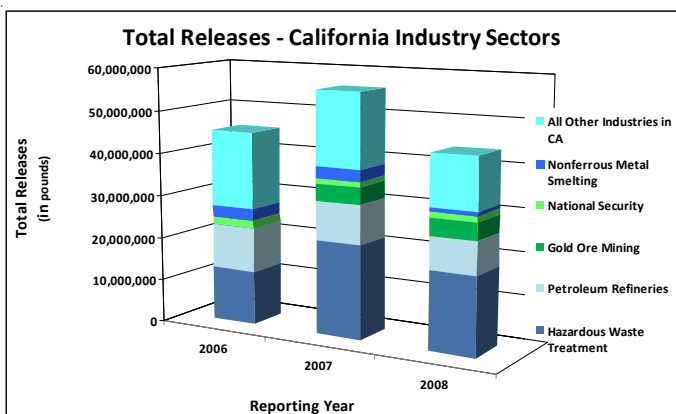
The top released chemicals based on total on-site and off-site releases in California are:

Chemical	Total Releases (pounds)	Percentage of Total Releases
LEAD COMPOUNDS	8,237,437	19
AMMONIA	5,029,497	11
ASBESTOS (FRIABLE)	4,854,977	11
ZINC COMPOUNDS	3,458,379	8
NITRATE COMPOUNDS	3,139,489	7
ALUMINUM (FUME OR DUST)	1,394,513	3
NICKEL COMPOUNDS	1,298,582	3
STYRENE	1,175,521	3
COPPER COMPOUNDS	1,010,658	2
NITRIC ACID	973,081	2

## Industry Breakdown

Hazardous waste, petroleum refineries and gold ore mining account for 68% of total releases in 2008.

Industry	Total Releases	Percentage of Total Releases
Hazardous Waste Treatment and Disposal	18,090,772	41%
Petroleum Refineries	7,534,129	17%
Gold Ore Mining	4,092,180	9%
National Security	1,315,571	3%
Nonferrous Metal Smelting	894,406	2%



## PBT Chemical Releases

*Releases of Persistent, Bioaccumulative and Toxic (PBT) chemicals are in pounds. Dioxin and dioxin-like compounds data are in grams, not in Toxicity Equivalence (TEQ).*

In California, 8 million pounds of total (on-site and off-site) releases of PBT chemicals were reported. This is a decrease of 1.9 million pounds or 19% since 2007. Lead and lead compounds tops the list in 2008. In determining release quantities for metal compounds, facilities only consider the primary metal portion of the compound. For instance, a facility reporting for lead compounds only reports the lead portion of the lead compounds released. The PBT Chemicals in the table are ranked in descending order by 2008 total on-site and off-site releases.

Chemical	Total On-Site and Off-Site Releases		Percent Change
	2007	2008	
LEAD & LEAD COMPOUNDS	10,140,000	8,237,437	-19
POLYCYCLIC AROMATIC COMPOUNDS	31,493	46,346	47
MERCURY & MERCURY COMPOUNDS	44,141	28,632	-35
POLYCHLORINATED BIPHENYLS	22,091	9,941	-55
BENZO(G,H,I)PERYLENE	3,405	4,840	42
TETRABROMOBIPHENOLA	790	2,006	154
CHLORDANE	397	318	-20
HEPTACHLOR	35	28	-19
HEXACHLOROBENZENE	3,413	8	-100
DIOXIN AND DIOXIN-LIKE COMPOUNDS (grams)	154	197	28

## Facilities with Largest PBT Releases

The top ten facilities in California for total on-site and off-site releases of PBT chemicals are:

	Facility Name	City	County	Total Releases
1	WESTERN MESQUITE MINES INC.	BRAWLEY	Imperial, CA	4,087,203
2	CHEMICAL WASTE MANAGEMENT INC.	KETTLEMAN CITY	Kings, CA	2,493,307
3	EXIDE TECHNOLOGIES	LOS ANGELES	Los Angeles, CA	721,137
4	CLEAN HARBORS BUTTONWILLOW LLC	BUTTONWILLOW	Kern, CA	253,500
5	U.S. MARINE CORPS MCB CAMP PENDLETON	CAMP PENDLETON	San Diego, CA	184,773
6	QUEMETCO INC.	CITY OF INDUSTRY	Los Angeles, CA	84,407
7	U.S. MARINE CORPS TWENTYNINE PALMS RANGE	TWENTYNINE PALMS	San Bernardino, CA	81,327
8	US MARINE CORPS CHOCOLATE MOUNTAINS AERIAL GUNNERY RANGE	NILAND	Imperial, CA	37,239
9	US TILE	IONE	Amador, CA	35,722
10	CONOCOPHILLIPS SAN FRANCISCO REFINERY	RODEO	Contra Costa, CA	32,477