

Chlorine and Building Materials

A Global Inventory of Production Technologies, Markets, and Pollution

Phase 1: Africa, The Americas, and Europe

Supplemental Table

Excess Chlorinated Pollutant
Release Ratings (US and Canada)

BY HEALTHY BUILDING NETWORK
JULY 2018



EXCESS CHLORINATED POLLUTANT RELEASE RATINGS (US AND CANADA)

INVENTORY CODE	PLANT	CHLORINATED PRODUCTS	CHLOR-ALKALI TECHNOLOGY	EXCESS POLLUTION RATING	CHLORINE THROUGHPUT (1,000 TPY, EST.)	Capacity (1,000 tons per year, estimated)				Avg kilograms releases per 1,000 tons chlorine throughput								
						CHLORINE	EDC	VCM	PVC	DIOXINS (TEQ G/YR)	CHLORINE	EDC	VCM	CARBON TETRA-CHLORIDE	CHLOROFORM	HCBD	HCl	PCBs
MEDIAN VALUES										0.00101	2.269	117.8	42.5	4.2	4.7	2.34	5.8	0.0020
AMUSA23	Westlake - Calvert City	Chlorine, EDC, VCM, PVC	Membrane	47	386	250		680	680	0.0267	168.6	6857.1	4585.6	9.4	4		51.1	
AMUSA03	Formosa Plastics - Point Comfort	Chlorine, EDC, VCM, PVC	Membrane	42	910	910	1130	753	816	0.00053	5.4	4629.6	1685.9	2066.7	2066.6		8.9	
AMUSA22	Westlake - Lake Charles	Chlorine, EDC, VCM	Membrane + Synthetic Diaphragm	41	1270	1270		952		0.01249	15.1	1531.3	1146.1	1.2	11.9	6.40	24.6	0.0002
AMUSA21	Westlake - Geismar	Chlorine, EDC, VCM, PVC	Membrane	35	317	317		385	331	0.02494	24.9	117.8	55.5	6.9	53.4		16.2	
AMUSA11	Occidental - Wichita	Chlorine, Chlorinated solvents	Asbestos + Membrane	27	248	248				0.000003	253.8	0.3		72.0	41.6		14	
AMUSA20	Westlake - Plaquemine	Chlorine, EDC, VCM, PVC	Asbestos	27	488	426		725	861	0.0031	0.8	4313.4	1816.2	0.2	1	0.01	49	
AMUSA06	Occidental - La Porte	Chlorine, EDC, VCM	Asbestos	21	1268	525	1770	1250		0.04191	3.1	389.7	3.0	20.4	22		3.7	0.018
AMUSA08	Occidental - Geismar	Chlorine, EDC, Chlorinated Solvents	Membrane	20	438	438	270			0.00082	6.8	20.5	1.0	86.4	13.9	15.07	26.8	0.00001
AMUSA24	Westlake - Natrium	Chlorine	Mercury + Synthetic Diaphragm	20	227	227				0.00055	76.4						1093.9	
from AMUSA03	Formosa PVC - Baton Rouge	VCM, PVC	from Membrane	18	326			575	470	0.00337	98.7	419.3	22.0	4.9	4.7		23.6	
AMUSA16	Olin - Freeport	Chlorine, EDC, VCM	Asbestos + Membrane	17	3030	3030	2110			0.00723	15.1	23.4	192.8	2.5	2.7	0.92	5.2	0.012
from AMUSA07	Mexichem PVC - Henry IL	PVC	from Asbestos	12	69				122				133.1				551.6	
AMUSA09	Occidental - Convent	Chlorine, EDC	Asbestos	12	487	353	680			0.01102	0.7	360.5					1.2	
AMUSA07	Occidental - Ingleside	Chlorine, EDC, VCM	Asbestos	11	1756	570	2450	907		0.00101	0.4	3.3	562.3	0.01	0.1		0.4	
from AMUSA03	Formosa PVC - Delaware City	PVC	from Membrane	5	82				144	0.000003			267.0					
AMUSA04	Occidental - Niagara Falls, NY	Chlorine	Asbestos	5	336	336				0.00849	1.3						4.1	

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COLOR CODES	
	Between 1 and 2x median of reported releases (1 pt.)
	Between 2 and 5x median of reported releases (2 pts.)
	Between 5 and 10x median of reported releases (5 pts.)
	Over 10x median of reported releases (10 pts.)

Notes: tpy = tons per year. TEQ = Toxicity Equivalent Factor (see Glossary of Notes in companion report). Chlorine Throughput estimates based on chlorine production and chlorine content of related products (ethylene dichloride, vinyl chloride monomer, and/or PVC resin). All data are self-reported by producers to the US Toxics Release Inventory and Canada's National Pollutant Release Inventory. See **Appendix C. Pollution** for the methodology used to calculate excess chlorinated pollutant release ratings.

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Supplemental Table

Healthy Building Network Mission

To advance human and environmental health by improving hazardous chemical transparency and inspiring product innovation.

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