Site Data

The Pollutant Release and Transfer (PRTR) Law came into force in 2001, making it mandatory for all plants to report the amounts of certain chemical substances that are released or transferred. The PRTR Law mandates reporting of certain chemicals that are handled in volumes of 1 ton or more (shaded in the table), and of certain Type 1 chemicals that are handled in volumes of 0.5 tons or more (shaded in the table). The following tables show the report data from each Sumitomo Metals business site. The tables also contain the main actual release data from each steel works and the regulatory values for SS (suspended solids) and COD (chemical oxygen demand) contained in wastewater, as well as for SOx (sulfur oxides) and NOx (nitrogen oxides) contained in exhaust gases.

● Submitted Data Related to PRTR Law

Tons/year (However, for "179 Dioxins", the units are g-TEQ/year.)

Cabinet Order No.	Substance	Released Quantity				Transferred Quantity	
		To Atmosphere	To Public Waters	To Soil	To Landfill (in Works)	To Sewer	To Outside as Waste
Kashima Steel Works (Kashima-shi, Ibaraki Prefecture)							
1	Water-soluble zinc compounds	0	2.1	0	0	0	0
30	Bisphenol A epoxy resin	0	0	0	0	0	0
40	Ethyl benzene	21	0	0	0	0	0
43	Ethylene glycol	0	0	0	0	0	0
63	Xylene	99	0	0	0	0	0
68	Chromium and trivalent chromium compounds	0	0	0	0.023	0	0
69	Hexavalent chromium compounds	0	0	0	0	0	0.50
145	Dichloromethane	15	0	0	0	0	0
177	Styrene	0.42	0	0	0	0	0
179	Dioxins (g-TEQ/year)	1.5	0.018	0	0	0	0
227	Toluene	17	0	0	0	0	0
231	Nickel	0	0	0	0.011	0	0
232	Nickel compounds	0	0	0	0	0	0
253	Hydrazine	0	0	0	0	0	0
299	Benzene	14	0	0	0	0	0
304	Boron and boron compounds	0	0.023	0	0	0	0
310	Formaldehyde	0	0	0	0	0	0
311	Manganese and manganese compounds	0	0	0	1.9	0	0
346	Molybdenum and molybdenum compounds	0	0.78	0	0	0	0
Wakayama Steel Works (Wakayama-shi, Wakayama Prefecture)							
1	Water-soluble zinc compounds	0	0	0	0	0	0
40	Ethyl benzene	3.2	0	0	0	0	0
43	Ethylene glycol	0	0	0	0	0	0
63	Xylene	11	0	0	0	0	0
68	Chromium and trivalent chromium compounds	0	0	0	0	0	1900
69	Hexavalent chromium compounds	0.00010	0	0	0	0	0
132	1-1-dichloro-1-fluoromenthane	3.4	0	0	0	0	0
144	Dichloropentafluoropropane	2.7	0	0	0	0	0
145	Dichloromethane	5.6	0	0	0	0	0
179	Dioxins (g-TEQ/year)	0.013	0	0	0	0	0
200	Tetrachloroethylene	7.9	0	0	0	0	0
227	Toluene	18	0	0	0	0	0
230	Lead and lead compounds	0	0	0	0	0	0
231	Nickel	0	0	0	0	0	0
232	Nickel compounds	0.014	0	0	0	0	200
253	Hydrazine	0	0.68	0	0	0	0
283	Hydrogen fluoride and water-soluble salts	0.22	0.0036	0	0	0	0
304	Boron and boron compounds	0.11	0.87	0	0	0	11
311	Manganese and manganese compounds	0	0.0020	0	0	0	390
346	Molybdenum and molybdenum compounds	0	0	0	0	0	48
Sumikin Iron & Steel Corporation (Wakayama) (Wakayama-shi, Wakayama Prefecture)							
63	Xylene	0.31	0	0	0	0	0
68	Chromium and trivalent chromium compounds	0	0	0	0	0	88
177	Styrene	0.12	0	0	0	0	0
179	Dioxins (g-TEQ/year)	5.3	0	0	0	0	0
227	Toluene	0.96	0	0	0	0	0
231	Nickel	0	0	0	0	0	0
299	Benzene	4.2	0	0	0	0	0
304	Boron and boron compounds	0	0	0	0	0	0
310	Formaldehyde	0	0	0	0	0	0
311	Manganese and manganese compounds	0	0	0	0	0	0
346	Molybdenum and molybdenum compounds	0	0	0	0	0	0
353	Tris-phosphate (dimenthyl phenol)	0	0	0	0	0	0

Tons/year (However, for "179 Dioxins", the units are g-TEQ/year.)

Cabinet Order No.	Substance	Released Quantity				Transferred Quantity	
		To Atmosphere	To Public Waters	To Soil	To Landfill (in Works)	To Sewer	To Outside as Waste
Wakayama Steel Works (Kainan) (Kainan-shi, Wakayama Prefecture)							
1	Water-soluble zinc compounds	0	0.17	0	0	0	1.2
145	Dichloromethane	4.6	0	0	0	0	0
200	Tetrachloroethylene	6.9	0	0	0	0	0
227	Toluene	11	0	0	0	0	0
230	Lead and lead compounds	0	0	0	0	0	0.0030
304	Boron and boron compounds	0	0	0	0	0	0.024
Steel Tube Works (Amagasaki-shi, Hyogo Prefecture)							
68	Chromium and trivalent chromium compounds	0	0.16	0	0	0	45
232	Nickel compounds	0	1.2	0	0	0	41
283	Hydrogen fluoride and water-soluble salts	0.25	0	0	0	0	0
304	Boron and boron compounds	0	6.8	0	0	0	0.58
311	Manganese and manganese compounds	0	0.30	0	0	0	2.8
346	Molybdenum and molybdenum compounds	0	0.79	0	0	0	1.1
Osaka Steel Works (Osaka-shi, Osaka Prefecture)							
63	Xylene	2.0	0	0	0	0	2.9
68	Chromium and trivalent chromium compounds	0	0	0	0	0	79
179	Dioxins (g-TEQ/year)	0.00063	0	0	0	0	0
224	1, 3, 5-trimethylbenzene	0.86	0	0	0	0	0
227	Toluene	9.3	0	0	0	0	5.8
232	Nickel compounds	0	0	0	0	0	0.30
311	Manganese and manganese compounds	0	0	0	0	0	340
346	Molybdenum and molybdenum compounds	0	0	0	0	0	3.5
Sumitomo Metals (Kokura) (Kitakyushu-shi, Fukuoka Prefecture)							
16	2-amino-ethanol	0	1.4	0	0	0	0
26	Asbestos	0	0	0	0	0	1.0
63	Xylene	0.63	0	0	0	0	0
68	Chromium and trivalent chromium compounds	0	0	0	0	0	39
145	Dichloromethane	1.0	0	0	0	0	0
179	Dioxins (g-TEQ/year)	0.64	0	0	0	0	0
227	Toluene	0.11	0	0	0	0	0
230	Lead and lead compounds	0	0	0	0	0	160
231	Nickel	0	0	0	0	0	0
232	Nickel compounds	0.00050	0	0	0	0	1.8
304	Boron and boron compounds	0	0	0	0	0	2.3
311	Manganese and manganese compounds	0	0.98	0	0	0	860
346	Molybdenum and molybdenum compounds	0	0	0	0	0	0.84
353	Tris-phosphate (dimethyl phenol)	0	0	0	0	0	5.1
Sumitomo Metals (Naoetsu) (Joetsu-shi, Niigata Prefecture)							
68	Chromium and trivalent chromium compounds	0	0	0	0	0	87
207	Water-soluble copper salts	0	0	0	0	0	0
232	Nickel compounds	0	0.077	0	0	0	68
283	Hydrogen fluoride and water-soluble salts	0	0	0	0	0	0
299	Benzene	0.75	0	0	0	0	0
304	Boron and boron compounds	0	0.39	0	0	0	0.028

● Water quality and air quality results and regulatory values

Note: Values in parentheses are the regulatory values.

	Units	Kashima Steel Works	Wakayama Steel Works (including Sumikin Iron & Steel Corporation (Wakayama))	Wakayama Steel Works (Kainan)	Steel Tube Works	Osaka Steel Works	Sumitomo Metals (Kokura)	Sumitomo Metals (Naoetsu)
SS*1	Tons/year	5,460 (36,433)	1,606 (5,694)	7(406)	5 (126)	4 (112)	184 (11,433)	6 (223)
COD*2	Tons/year	2,810 (21,189)	913 (1,898)	17 (304)	18 (981)	12 (124)	75 (149)	11 (128)
SOx	kNm^3/year	2,031 (7,411)	1,404 (3,907)	21 (307)	0 (186)	0 (0)	145 (1,945)	0 (49)
NOx	kNm^3/year	4,607 (12,826)	3,013 (5,326)	126 (417)	29 (76)	33 (215)	985 (2,567)	0.003 (63)

*1 SS (suspended solids): Small particles suspended in water with a size of between 1 micron (1 micron = 1 millionth of a meter) and 2 millimeters. SS volume is determined by environmental standards with respect to environmental preservation.

*2 COD (chemical oxygen demand): This is the amount of oxygen that is consumed by oxidation of organic substances in water. It is used as an index for organic pollution.