

Environmental Data for Lion Corporation (Japan)

As of 31 December 2022

■ Chiba Plant

Category	Year (ton)					
	2018	2019	2020	2021	2022	
CO ₂ emissions	11,900	12,100	11,800	11,600	11,400	
Waste	Total waste generated	1,300	1,300	1,200	1,100	1,000
	Landfill waste	0	0	0	0	0
SOx emissions	1>	1>	1>	1>	1>	
NOx emissions	2.0	2.3	2.2	2.2	1.6	
COD	1>	1>	1>	1>	1>	

■ Odawara Plant

Category	Year (ton)					
	2018	2019	2020	2021	2022	
CO ₂ emissions	6,200	6,380	6,280	6,390	6,100	
Waste	Total waste generated	520	470	480	470	460
	Landfill waste	0	0	0	0	0
SOx emissions	0	0	0	0	0	
NOx emissions	1>	1>	1>	1>	1>	
COD	1.4	1.7	2.3	2.8	3.1	

■ Osaka Plant

Category	Year (ton)					
	2018	2019	2020	2021	2022	
CO ₂ emissions	6,760	5,830	5,550	6,230	4,090	
Waste	Total waste generated	150	160	350	140	760
	Landfill waste	0	0	0	0	0
SOx emissions	0	0	0	0	0	
NOx emissions	1>	1>	1>	1>	1>	
COD	1>	1>	1>	1>	1>	

■ Akashi Plant

Category	Year (ton)					
	2018	2019	2020	2021	2022	
CO ₂ emissions	2,500	2,890	2,870	3,450	3,080	
Waste	Total waste generated	310	520	360	350	330
	Landfill waste	0	0	0	0	0
SOx emissions	0	0	0	0	0	
NOx emissions	1>	1>	1>	1>	1>	
COD	7.5	13	14	14	20	

**■ Lion Chemical Co.,Ltd.
Fine Chemical Production Site**

Category	Year (ton)					
	2018	2019	2020	2021	2022	
CO ₂ emissions	13,000	13,300	13,000	12,800	12,600	
Waste	Total waste generated	790	900	750	690	780
	Landfill waste	0	0	0	0	0
SOx emissions	0	0	0	0	0	
NOx emissions	0	0	0	0	0	
COD	3.7	3.0	3.2	4.2	4.1	

**■ Lion Chemical Co.,Ltd.
Oleochemical Production Site**

Category	Year (ton)					
	2018	2019	2020	2021	2022	
CO ₂ emissions	11,400	9,040	8,230	13,400	16,200	
Waste	Total waste generated	480	650	540	1,200	1,000
	Landfill waste	1.8	2.2	0.3	0	0.0
SOx emissions	2.9	2.3	2.5	2.3	2.4	
NOx emissions	3.4	4.4	4.1	4.4	4.4	
COD	1>	1>	1>	1>	1>	

**■ Lion Specialty Chemicals Co.,Ltd.
Ono Office**

Category	Year (ton)					
	2018	2019	2020	2021	2022	
CO ₂ emissions	3,500	3,030	2,860	2,850	2,840	
Waste	Total waste generated	3,000	2,900	2,700	2,800	3,300
	Landfill waste	1.6	2.1	2.0	2.1	0.0
SOx emissions	1.1	1>	1.1	1>	1>	
NOx emissions	1.6	1.3	1.4	1.2	1.0	
COD	1>	1>	1>	1>	1>	

**■ Lion Specialty Chemicals Co.,Ltd.
Yokkaichi Office**

Category	Year (ton)					
	2018	2019	2020	2021	2022	
CO ₂ emissions	11,800	11,800	11,100	11,700	11,600	
Waste	Total waste generated	310	210	350	300	350
	Landfill waste	2.0	1.3	2.1	2.2	2.9
SOx emissions	1>	1>	1>	1>	1>	
NOx emissions	20	16	20	18	17	
COD	1>	1>	1>	1>	1>	