

**Environmental Data for Lion Corporation (Japan)**

As of 31 December 2020

**■ Chiba Plant**

Category		Year (ton)				
		2016	2017	2018	2019	2020
CO <sub>2</sub> emissions		10,800	10,300	11,900	12,100	11,800
Waste	Total waste generated	480	880	1,350	1,300	1,160
	Landfill waste	0	0	0	0	0
SOx emissions		1>	1>	1>	1>	1>
NOx emissions		1.7	1.3	2	2.3	2.2
COD		1>	1>	1>	1>	1>

**■ Odawara Plant**

Category		Year (ton)				
		2016	2017	2018	2019	2020
CO <sub>2</sub> emissions		5,940	5,890	6,200	6,380	6,280
Waste	Total waste generated	330	480	520	470	480
	Landfill waste	0	0	0	0	0
SOx emissions		0	0	0	0	0
NOx emissions		1>	1>	1>	1>	1>
COD		1.9	1.7	1.4	1.7	2.3

**■ Osaka Plant**

Category		Year (ton)				
		2016	2017	2018	2019	2020
CO <sub>2</sub> emissions		9,820	8,210	6,760	5,830	5,550
Waste	Total waste generated	120	350	150	160	350
	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)				
		2016	2017	2018	2019	2020
CO <sub>2</sub> emissions		3,030	2,930	2,500	2,890	2,890
Waste	Total waste generated	760	390	310	520	360
	Landfill waste	0	0	0	0	0
SOx emissions		0	0	0	0	0
NOx emissions		1>	1>	1>	1>	1>
COD		1>	7.1	7.5	13	14

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

Category		Year (ton)				
		2016	2017	2018	2019	2020
CO <sub>2</sub> emissions		13,200	13,000	13,000	13,300	13,000
Waste	Total waste generated	940	740	790	900	750
	Landfill waste	0	0	0	0	0
SOx emissions		0	0	0	0	0
NOx emissions		0	0	0	0	0
COD		6.6	4.2	3.7	3.0	3.2

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

Category		Year (ton)				
		2016	2017	2018	2019	2020
CO <sub>2</sub> emissions		13,100	11,900	11,400	9,040	8,230
Waste	Total waste generated	1,100	650	480	650	540
	Landfill waste	3.9	2.9	1.8	2.2	0.34
SOx emissions		2.8	2.9	2.9	2.3	2.5
NOx emissions		3.6	3.5	3.4	4.4	4.1
COD		1>	1>	1>	1>	1>

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

Category		Year (ton)				
		2016	2017	2018	2019	2020
CO <sub>2</sub> emissions		3,840	3,790	3,500	3,030	2,860
Waste	Total waste generated	2,900	2,900	30,000	2,900	2,700
	Landfill waste	7.3	13.0	1.6	2.1	2.0
SOx emissions		1>	1	1.1	1>	1.1
NOx emissions		1.5	1.4	1.6	1.3	1.4
COD		1>	1>	1>	1>	1>

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

Category		Year (ton)				
		2016	2017	2018	2019	2020
CO <sub>2</sub> emissions		11,900	11,700	11,800	11,800	11,100
Waste	Total waste generated	310	280	310	210	350
	Landfill waste	0	1.9	2.0	1.3	2.1
SOx emissions		1>	1>	1>	1>	1>
NOx emissions		21	18	20	16	20
COD		1>	1>	1>	1>	1>