

# Managing and reducing pollutants

We strive to properly manage and reduce pollutants according to our own standards, and the law and rules of the organizations we belong to.

## Pollutant Release and Transfer Register (PRTR) surveys

Since fiscal 1997, we have taken part in voluntary PRTR surveys organized by Nippon Keidanren (Japan Business Federation), in an effort to establish the amounts of pollutants that we handle, release and transfer.

We have been reporting data to the Ministry of Economy, Trade and Industry under the PRTR Law since June 2001. However, we have set up our own survey standards to quantify the use of chemical substances across all departments of the company.

Since fiscal 2005, our domestic Group companies have conducted

the same voluntary PRTR surveys in an effort to reduce the release of pollutants.

The table below lists each of the substances of which we handle a total of at least 0.1 tons per year.

From fiscal 2011, we continued to manage chemical substances so that we did not use substances of very high concern under European REACH (Registration, Evaluation, Authorization and Restriction of Chemicals) regulations, and also those that we expected to be regulated in future.

### ● Results of fiscal 2019 survey of pollutant releases and transfers (April 1, 2019 - March 31, 2020)

(Unit: tons /year)

PRTR Law Cabinet Order No.	Name	Types of designated chemical compounds	Amount used yearly	Amount emitted						Amount moved	
				Atmosphere	Water quality	Soil	Buried on-site			Sewage system	Waste (subcont.)
							Stable	Managed	Isolated		
1	Zinc compounds (water-soluble)	Class I	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
20	2-aminoethanol	Class I	0.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1
30	Linear alkylbenzenesulfonate	Class I	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
53	Ethyl benzene	Class I	5.3	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
71	Ferric chloride	Class I	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
80	Xylene	Class I	21.9	19.1	0.0	0.0	0.0	0.0	0.0	0.0	0.5
296	1,2,4-trimethylbenzene	Class I	1.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
297	1,3,5-trimethylbenzene	Class I	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
298	Toluene diisocyanate (TDI)	Class I	703.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
300	Toluene	Class I	81.9	57.6	0.0	0.0	0.0	0.0	0.0	0.0	2.3
309	Nickel compounds	Special Class I	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
384	1-Bromopropane	Class I	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
410	Polyoxyethylene nonylphenyl ether	Class I	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.3	0.0
412	Manganese and its compounds	Class I	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
448	Methylenebis (4.1-phenylene) = Diisocyanate (MDI)	Class I	145.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
455	Morpholine	Class I	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
Total volume of PRTR substances			969.8	82.6	0.0	0.0	0.0	0.0	0.0	0.8	4.3
Domestic Group companies											
1	Zinc compounds (water-soluble)	Class I	17.7	0.0	0.0	0.0	0.0	0.0	0.0	0.1	8.8
53	Ethyl benzene	Class I	26.7	23.5	0.0	0.0	0.0	0.0	0.0	0.7	0.4
66	1,2-Epoxybutane	Class I	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69	2,3-Epoxypropyl phenyl ether	Class I	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80	Xylene	Class I	62.4	52.2	0.0	0.0	0.0	0.0	0.0	1.7	0.8
185	Dichloropentafluoropropane (HCFC225)	Class I	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
232	N,N-dimethylformamide	Class I	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
240	Styrene	Class I	43.8	20.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
296	1,2,4-trimethylbenzene	Class I	11.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
297	1,3,5-trimethylbenzene	Class I	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
300	Toluene	Class I	127.0	124.8	0.0	0.0	0.0	0.0	0.0	0.4	0.9
321	Vanadium compounds	Class I	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
354	Bis (n-butyl) phthalate	Class I	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
384	1-Bromopropane	Class I	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
448	Methylenebis (4.1-phenylene) = Diisocyanate (MDI)	Class I	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total volume of PRTR substances			295.5	226.0	0.0	0.0	0.0	0.0	0.0	2.9	14.0

\*Industrial wastes include waste materials that have value or no value and that can be recycled. Excludes materials sold.

\*Volume moved when discharged into public sewage system