

Environmental Preservation: PRTR and Treatment of Industrial Waste and PCB Waste

Emission/Transfer of PRTR*1 Substances

Data covers 13 domestic factories and laboratories and 10 key domestic consolidated subsidiaries with factories. Details are on page 10.

Total Volume of PRTR Substances Emitted/Transferred in Fiscal 2020	Handling Volume (Tons)	Emissions Volume (Tons)				Increase/Decrease Rate Compared with Fiscal 2019 (Total Emissions)	Transfer Volume (Tons)	Number of PRTR Substances
		Atmosphere	Public Water	Soil	Total			
UBE	274,401	78.9	71.7	0.0	150.6	(15.4)%	2,142.4	56
Other Group companies	30,038	110.6	10.5	0.0	121.1	7.0%	1,218.4	25
Total (UBE Group)	304,439	189.5	82.2	0.0	271.7	(6.7)%	3,360.8	66

Volumes of Individual PRTR Substances Emitted/Transferred in Fiscal 2020 (Top 10 by UBE's Emission Volumes and Dioxins)

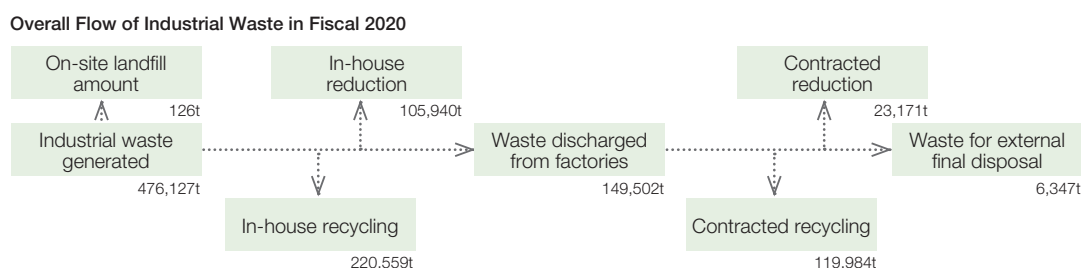
Ordinance Designation No.	Chemical Substance	CAS No.*2	Handling Volume (Tons)	Total Emissions Volume (Tons)				Increase/Decrease Rate Compared with Fiscal 2019 (Total Emissions)	Transfer Volume (Tons)
				Atmosphere	Public Water	Soil	Total		
300	Toluene	108-88-3	868	65.1	11.1	0.0	76.2	(9.3)%	361.5
76	Epsilon-caprolactam	105-60-2	116,231	0.0	64.1	0.0	64.1	(30.4)%	783.4
240	Styrene	100-42-5	253	42.8	0.0	0.0	42.8	7.5%	0.5
80	Xylene	—	155	18.3	0.0	0.0	18.3	1.1%	9.0
53	Ethylbenzene	100-41-4	23	14.3	0.0	0.0	14.3	15.3%	7.9
104	Chlorodifluoromethane	75-45-6	13	12.3	0.0	0.0	12.3	288.0%	1.1
400	Benzene	71-43-2	92	9.4	0.2	0.0	9.6	11.6%	3.3
213	N,N-dimethylacetamide	127-19-5	677	9.3	0.0	0.0	9.3	10.7%	287.7
128	Chloromethane	74-87-3	9	8.9	0.0	0.0	8.9	(18.3)%	0.0
405	Boron compound	—	44	0.1	3.9	0.0	4.0	(5.4)%	6.0
243	Dioxins ^(Note) mg-TEQ/year	—	—	182.2	3.4	0.0	185.6	(40.7)%	0.0

Note: Contains various compounds

The UBE Group has voluntarily selected 20 substances**4 that it emits in relatively large amounts and particularly strives to reduce its emissions of these substances. The 20 substances comprise substances subject to the Japanese PRTR Law as well as a number of volatile organic compounds (VOCs)**3.

Treatment of Industrial Waste

Data covers 13 domestic factories and laboratories and 10 key domestic consolidated subsidiaries with factories. Details are on page 10.



When contracting waste treatment or disposal outside the Group, the UBE Group utilizes industrial waste management forms (a waste manifest system) in compliance with waste treatment and clean-up laws (namely the Waste Management and Public Cleansing Act) and carefully manages the entire process.

Polychlorinated Biphenyl (PCB) Waste Disposal

We thoroughly audit stabilizers and other equipment using PCBs. In addition, we are endeavoring to complete PCB waste disposals by the deadline set under the amended Act on Special Measures for Promotion of Proper Treatment of Polychlorinated Biphenyl. We comply with storage and disposal laws and ordinances processing, and utilize Japan Environmental Storage & Safety Corporation (JESCO) and certified detoxification contractors to systematically dispose of PCB waste.

Glossary

*1 PRTR (Pollutant Release and Transfer Register) Law: This legislation requires companies to identify business site chemical substance emissions and transfer volumes and report to the government. The Ministry of the Environment discloses the submitted information on its website. Such disclosure is designed to encourage voluntary efforts to improve chemical substance management.

*2 CAS No.: Chemical Abstract Service registry number

*3 Volatile organic compounds (VOCs): These organic chemicals evaporate or sublime easily, entering the atmosphere as gases. They are factors in the forming of suspended particulate matter (PM) and photochemical oxidant pollution.

*4 UBE's 20 voluntary selected chemical substances: Please see the Glossary on page 2.