



Reduction in Discharge of Chemical Substances

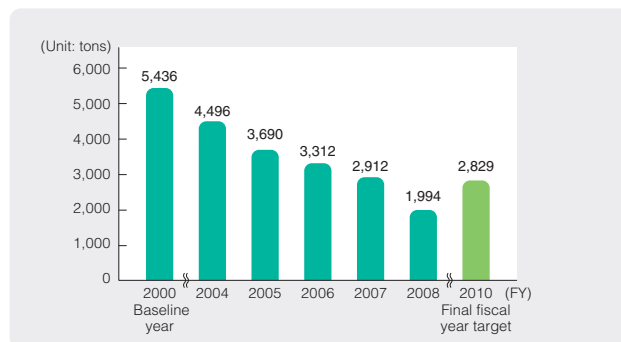
Voluntary Plan to Reduce VOC Discharge

A 63% reduction compared to fiscal 2000 achieved in fiscal 2008

Volatile organic compounds (VOCs)* are known to generate suspended particulate matter and photochemical oxidants, which are causes of photochemical smog. In order to ensure comfortable living, it is necessary to reduce VOCs emitted from plants and other sources as much as possible. In accordance with the program of the Japan Chemical Industry Association, of which we are a member, we have established a voluntary plan to reduce the amount of our VOC emissions. We began related efforts in the 2006 fiscal year, setting fiscal 2010 as the final year.

In the 2008 fiscal year, we achieved a 63% reduction (1,994 tons of emissions) compared to the baseline year, greatly exceeding our 48% reduction target for the final fiscal year of the plan (2,829 tons of emissions in the 2010 fiscal year). Except for reduction in the amount of production, the main reasons that we were able to achieve the goals of this plan are that we enhanced the recovery equipment at our Takasago Plant as well as improved the combustion equipment at our Osaka Plant. In the 2009 fiscal year, we will continue striving to maintain the same level of emissions as the 2008 fiscal year.

Voluntary Plan to Reduce VOC Discharge



* Volatile organic compounds (VOC) are organic compounds that generate suspended particulate matter and cause photochemical oxidants that are emitted into the atmosphere or are vaporous when dispersed.

Substances Subject to the PRTR Law

Total emissions reduced by 93% compared to fiscal 2003

Kaneka is working to reduce our emissions of substances that are subject to the Pollutant Release and Transfer Register Law (PRTR Law). In fiscal 2008, our total amount of emissions was 77 tons, 59 tons less than the previous year. As a result, we achieved a 93% reduction compared to the 2003 fiscal year. We also transferred 1,589 tons, which was

76 tons more than the previous fiscal year. Our domestic group companies emitted a total of 111 tons of substances subject to the PRTR law in fiscal 2008, achieving an 18% reduction compared to the previous fiscal year. We will continue to work to suppress the amount of emissions in the 2009 fiscal year.

Chemical Substances Subject to PRTR Law That Are Discharged and Transferred by Kaneka (FY2008)

(Unit: kg)

Ordinance Designated Number	Chemical Substances	Emission					Transfer Amount	
		Emission to atmosphere	Drainage into public water	Discharge into soil	Waste taken to landfill sites	Total	<FY2007>	Total
10 Substances Discharged in Large Volumes	77 Chloroethylene	13,250	520	0	0	13,770	<32,570>	400
	145 Dichloromethane	12,410	0	0	0	12,410	<23,461>	805,590
	177 Styrene	7,402	40	0	0	7,442	<9,854>	2,721
	102 Vinyl acetate	7,300	0	0	0	7,300	<7,900>	50
	116 1,2-dichloroethane	5,000	0	0	0	5,000	<7,100>	0
	320 Methyl methacrylate	4,169	2	0	0	4,171	<11,731>	141
	74 Chloroethane	4,100	0	0	0	4,100	<9,100>	0
	268 1,3-butadiene	3,900	2	0	0	3,902	<7,002>	0
	172 N,N-dimethylformamide	3,200	550	0	0	3,750	<10,450>	370,000
	254 Hydroquinone	0	2,500	0	0	2,500	<2,700>	0
Total of Remaining 35 Substances		8,222	4,003	0	0	12,225	<14,013>	409,865
Grand Total of All 45 Substances*		68,953	7,617	0	0	76,570	<135,881>	1,588,767

* Kaneka handles 45 of the 354 substances subject to registration by the PRTR Law.

Amount of Chemical Substances Subject to PRTR Law That Are Discharged and Transferred by Kaneka's Domestic Group Companies (FY2008)

(Unit: kg)

Ordinance Designated Number	Chemical Substances	Emission					Total	<FY2007>	Transfer Amount Total
		Emission to atmosphere	Drainage into public water	Discharge into soil	Waste taken to landfill sites				
10 Substances Discharged in Large Volumes	172	N,N-dimethylformamide	44,300	0	0	0	44,300	<51,570>	15,100
	227	Toluene	39,207	0	0	0	39,207	<51,020>	230,000
	63	Xylene	15,400	0	0	0	15,400	<19,000>	0
	40	Ethylbenzene	3,900	0	0	0	3,900	<6,000>	0
	145	Dichloromethane	3,300	0	0	0	3,300	<3,130>	70,500
	266	Phenol	2,600	0	0	0	2,600	<1,150>	2,500
	242	Nonylphenol	1,800	0	0	0	1,800	<0>	0
	272	Bis(2-ethylhexyl) phthalate	266	0	0	0	266	<352>	783
	95	Chloroform	30	0	0	0	30	<2,160>	870
	9	Bis(2-ethylhexyl) adipate	10	0	0	0	10	<14>	2
Total of Remaining 14 Substances		1	0	0	0	1	<976>	16,184	
Grand Total of All 24 Substances*		110,814	0	0	0	110,814	<135,372>	335,939	

* Kaneka domestic group companies handle 24 of the 354 substances subject to registration by the PRTR Law.

Harmful Atmospheric Pollutants

A 96% reduction in emissions of six substances that we handle compared to fiscal 1999

In response to revision of the Air Pollution Control Law in 1996, we established a voluntary emissions reduction plan in 1997 for six harmful atmospheric pollutants that we handle (chloroethylene, 1,2-dichloroethane, dichloromethane, acrylonitrile, 1,3-butadiene, chloroform), and we have been making efforts to realize this plan since then.

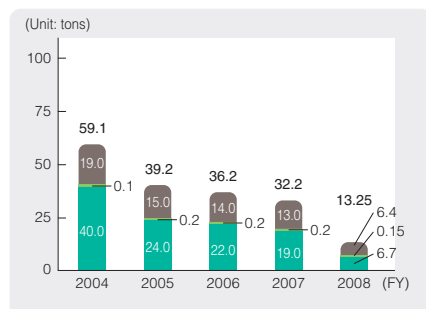
In fiscal 2008, we reduced our total emissions of these six

substances by 96% compared to fiscal 1999, achieving a great reduction of 51% compared to the previous fiscal year. The main reason for this reduction was the operation of the exhaust gas combustion equipment that we installed to reduce chloroethylene at our Takasago Plant and Kashima Plant in fiscal 2008. We will continue to work to reduce emissions of these pollutants.

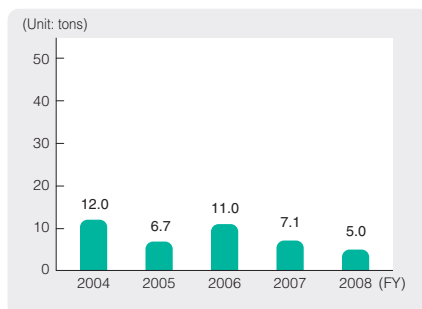
Change in Amounts of Emissions of Six Harmful Atmospheric Pollutants

■ Takasago Plant ■ Osaka Plant ■ Shiga Plant ■ Kashima Plant

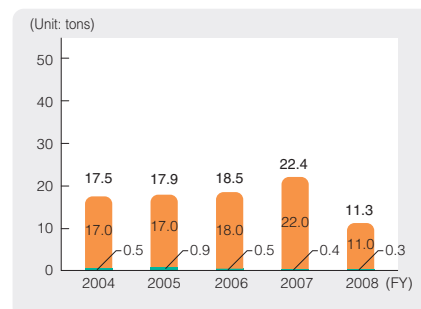
Chloroethylene Emission



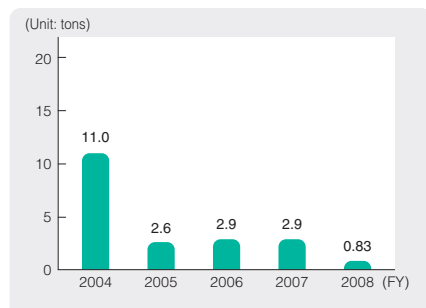
1,2-Dichloroethane Emission



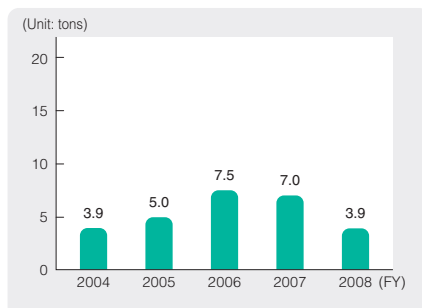
Dichloromethane Emission



Acrylonitrile Emission



1,3-Butadiene Emission



Chloroform Emission

