

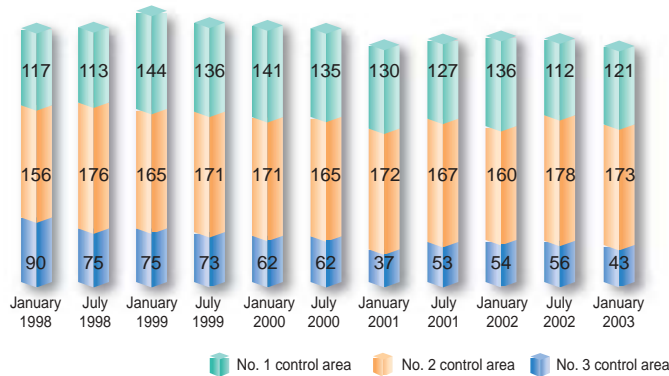
Improvement of working environment

For the sake of safety and employee's health in our workshops, and local environmental pollution prevention, we are always improving the working environment, checking mainly noise and chemical substances.

Noise

Though the number of No. 3 control area in noisy workshops decreased by eleven compared with that in January 2002, the number of the area is increasing because new equipments and new workshops are increasing since July 2001. We promote to reduce the area from now on.

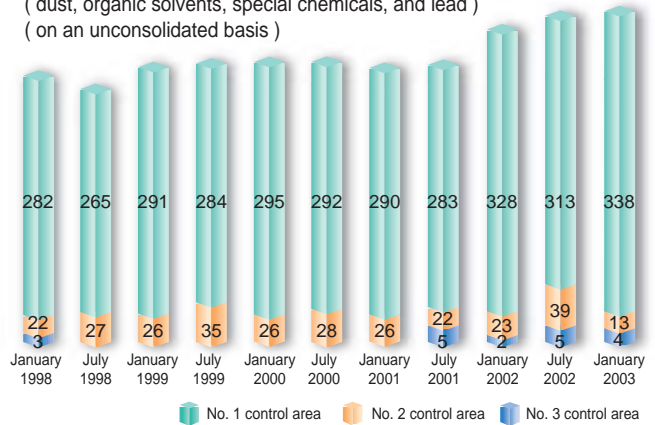
Transition of numbers of noisy workshops (on an unconsolidated basis)



Hazardous substances

Regarding hazardous substances handling workshops (dust, organic solvents, special chemicals, and lead), there were no No. 3 control area since 1998, but there are four workshops now. We will consider the improving measures at once to improve the status. We are also improving the working environment of these workshops, setting up stricter self-imposed concentration than that of national standard.

Transition of numbers of hazardous substances handling workshops (dust, organic solvents, special chemicals, and lead) (on an unconsolidated basis)



Working Environment, An example of improvement of organic solvents handling workshop (Pump painting workshop in Hirakata plant)



A large-sized painting equipment for pumps



Improved contents

We newly installed a large-sized painting equipment (sucking from under the floor, and fully covering a pump) in addition to the conventional equipment (sucking from the wall) in order to increase the painting capacity and to comply with large-sized pumps.

Before improvement		After improvement	
A small-sized local ventilating equipment	■■■■■■■	A small-sized local ventilating equipment + a large-sized local ventilating equipment	■■■■■■■
No. 2 control area	■■■■■■■	No. 1 control area	■■■■■■■

Status of groundwater contamination control

Though trichloroethylene is used in our one plant (Naniwa factory), we are making an effort to stop its use completely in fiscal 2004.

Plant	Substance	Using period	Annual amount of use (fiscal 2002)	Measured value in groundwater	Environmental standard
Naniwa	Trichloroethylene	1993 ~ 2002	15.5 ton	Not detected (less than 0.002 mg/)	0.03mg/



An observation well

Chemical substances control

The total amount of the chemicals discharged and transferred was reduced by 7.4% compared with fiscal 2001. We at Kubota make an effort to prevent environmental pollution both inside and outside our plants, by appropriate control of chemical substances. At the same time, we are promoting the reduction of those chemicals both in use and in transfer (disposal).

PRTR aggregate results (on an unconsolidated basis, results in fiscal 2002) (unit: kg/year, mg-TEQ/year for dioxins)

Number specified in cabinet order	Substance	Handling amount: 1 ton or more per year				Emission amount		Transferred amount	
		Air	Water	Soil	Landfill	Sewerage	Transferred outside	Sewerage	Transferred outside
16	2-aminoethanol	0	0	0	0	0	0	0	11,000.0
30	Bisphenol A type epoxy resin	0	0	0	0	0	0	0	2,500.0
40	Ethylbenzene	310,000.0	0	0	0	0	0	0	4,200.0
43	Ethylene glycol	0.0	0	0	0	0	0	0	1,800.0
63	Xylene	730,000.0	0	0	0	0	0	0	24,000.0
68	Chromium and its trivalent compounds	0	0	0	0	11.0	0	0	24,000.0
69	Hexavalent chromium compounds	0	0	0	0	0	0	0	450.0
176	Organic tin compounds	11.0	0	0	0	0	0	0	26.0
177	Styrene	60,000.0	0	0	0	0	0	0	0
179	Dioxins	9.3	0	0	0	0	0	0	1.8
211	Trichloroethylene	7,100.0	0	0	0	0	0	0	8,400.0
227	Toluene	340,000.0	0	0	0	0	0	0	17,000.0
230	Lead and its compounds	48.0	0	0	0	0	0	0	3,900.0
231	Nickel	3.6	0	0	0	0	0	0	14.0
266	Phenol	0	0	0	0	0	0	0	370.0
304	Boron and its compounds	0	0	0	0	0	0	0	2,700.0
311	Manganese and its compounds	0	0	0	0	2.3	0	0	76,000.0
312	Phthalic anhydride	0	0	0	0	0	0	0	0
346	Molybdenum and its compounds	0	0	0	0	0	0	0	0
9	Bis (2-ethylhexyl) adipate	0	0	0	0	0	0	0	370.0
29	Bisphenol A	0	0	0	0	0	0	0	0
100	Cobalt and its compounds	0	0	0	0	0	0	0	280.0
145	Methylene dichloride	1,800.0	0	0	0	0.3	0	0	0
224	1, 3, 5-trimethylbenzene	8,700.0	0	0	0	0	0	0	310.0
270	Di-n-butyl phthalate	0	0	0	0	0	0	0	130.0
272	Bis (2-ethylhexyl) phthalate	0	0	0	0	0	0	0	210.0
309	Poly (oxyethylene) nonylphenyl ether	0	0	0	0	0	0	0	1,100.0
310	Formaldehyde	1,300.0	0	0	0	0	0	0	0
	Total	1,500,000.0	0	0	0	14.0	0	0	180,000.0

*1. Substances of red letters show the Class 1 designated chemical substances.
 *2. Figures are shown double figures as significant figures.
 (The figures were calculated by rounding off to one decimal place, when they were smaller than one kg.)

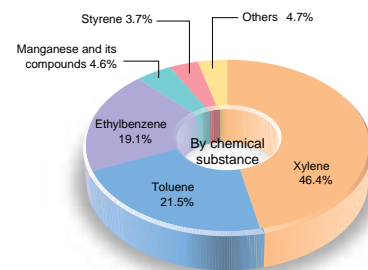
PRTR aggregate results (seven affiliates, results in fiscal 2002) (unit: kg/year, mg-TEQ/year for dioxins)

Number specified in cabinet order	Substance	Handling amount: five ton or more per year				Emission amount		Transferred amount	
		Air	Water	Soil	Landfill	Sewerage	Transferred outside	Sewerage	Transferred outside
40	Ethylbenzene	9,100.0	3.0	0	0	0	0	0	450.0
63	Xylene	26,000.0	0	0	0	0	0	0	1,700.0
68	Chromium and its trivalent compounds	0	0	0	0	0	0	0	38.00
179	Dioxins	22.0	0	0	0	0	0	0	1,100.0
230	Lead and its compounds	0	0	0	0	0	0	0	130.0
231	Nickel	0	0	0	0	0	0	0	0
311	Manganese and its compounds	0	0	0	0	0	0	0	220
132	HCFC-141b	130.0	0	0	0	0	0	0	660.0
176	Organic tin compounds	0	0	0	0	0	0	0	4.8
227	Toluene	5,000.0	0	0	0	0	0	0	2,200.0
346	Molybdenum and its compounds	0	0	0	0	0	0	0	0
	Total	40,000	3.0	0	0	0	0	0	9,200

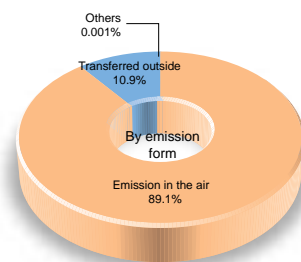
*1. Substances of red letters show the Class 1 designated chemical substances.
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Status of chemical substances emission and transfer (on an unconsolidated basis)

Ratio of the amount of emission and transfer by substance

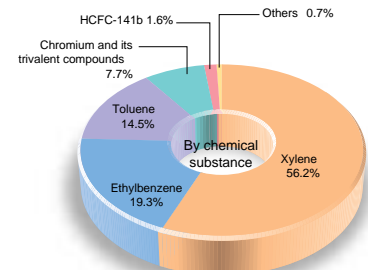


Ratio of the amount of emission and transfer by emission form

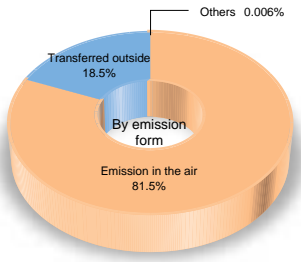


Status of chemical substances emission and transfer (seven affiliates)

Ratio of the amount of emission and transfer by substance



Ratio of the amount of emission and transfer by emission form

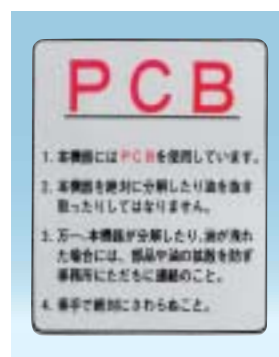


Status of storage of electric equipments containing PCB

We continue the strict storage of electric equipments containing PCB. At the same time, we will entirely abolish the equipments currently used by fiscal 2005, and intend to finish harmless treatment of them by fiscal 2010, complying with newly enforced Law Concerning Special against PCB.

	Number of notified plants	In use	Storage
On an unconsolidated basis	22	168	586
Affiliates	11	12	87
Total	33	180	673

* The high-voltage equipments containing PCB in our all plants and affiliates (manufacturing and non-manufacturing departments) were investigated.



使用製品添付ラベル



Storage warehouse of PCB