

1. Kuraray Co., Ltd.

Remark: the affiliated companies located in the site are included.

Total		Unit	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY2007	FY2008	FY2009	FY2010
Water use		1,000 m <sup>3</sup>	94,318	90,474	83,163	81,985	84,291	84,690	87,311	84,654	82,796	73,179	71,264	74,613
Effluent		1,000 m <sup>3</sup>	90,313	85,217	78,704	77,499	77,383	80,220	80,036	76,746	76,494	69,314	67,652	69,947
COD load		tons	1,030	943	739	753	710	743	747	740	676	587	589	583
Energy consumption (crude oil equivalent)		1,000 kl	480	449	459	457	467	467	454	457	452	394	393	409
GHG emissions		1,000 t-CO <sub>2</sub> e	1,467	1,503	1,364	1,352	1,366	1,359	1,360	1,310	1,310	1,202	1,168	1,200
	(inside number: CO <sub>2</sub> emissions)		1,435	1,377	1,320	1,369	1,352	1,375	1,338	1,288	1,290	1,174	1,141	1,167
SOx emissions		tons	2,731	2,666	2,428	1,192	555	564	506	634	461	302	295	430
NOx emissions		tons	1,999	1,924	2,059	1,920	1,858	1,957	1,887	1,681	1,620	1,432	1,507	1,528
Soot and dust emissions		tons	162	145	134	90	67	63	40	31	57	39	29	27
Ozone-layer depleting substance emissions		tons of CFC equivalent			1	1	0	0	0	0	0	0	0	0
Substances covered under JCIA's voluntary PRTR management program	No. of items		54	77	72	71	77	70	67	72	73	65	64	73
	Release	tons	3,524	3,063	2,599	2,222	1,970	2,131	2,064	1,635	1,285	972	837	943
	Transfer	tons	1,738	1,430	1,200	1,371	1,060	887	1,288	750	761	820	857	1,449
Substances covered under PRTR law	No. of items		32	47	46	39	44	43	38	45	45	41	40	56
	Release	tons	1,344	943	714	652	624	627	570	535	503	417	364	425
	Transfer	tons	434	150	70	218	331	394	728	304	300	300	410	960
Waste	Volume generated	tons	76,308	74,633	78,709	84,637	85,267	91,432	93,212	84,550	76,126	68,351	60,455	65,939
	Utilized internally	tons	11,953	12,450	9,790	25,604	29,643	28,957	29,784	26,957	25,501	22,624	20,229	21,991
	Utilized externally	tons	35,953	35,805	45,768	45,316	45,876	53,740	52,532	50,557	43,335	40,755	35,910	40,870
	Unutilized internally	tons	18,768	17,747	18,911	9,882	7,160	6,382	6,902	6,337	6,892	4,494	3,812	2,654
	Unutilized externally	tons	9,634	8,631	4,299	3,894	2,657	2,354	3,995	699	396	480	503	422

Okayama Plant

- (1) Address: 1-2-1, Kaigan-dori, Minami-ku, Okayama City, Okayama Prefecture
- (2) Site area: 663,000 m<sup>2</sup>
- (3) ISO 14001: Certification No. JQA-EM0796 (Certified on March 24, 2000)

Main products: Kuralon, Kuralon K-II, EVAL resin and film, Clarino (man-made leather), POVAL resin, Kuraflex (dry-laid non-woven fabric)

Total		Unit	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY2007	FY2008	FY2009	FY2010
Water use		1,000 m <sup>3</sup>	29,383	28,717	27,052	25,817	25,167	26,422	26,270	27,626	27,226	23,970	23,917	23,768
Effluent		1,000 m <sup>3</sup>	27,550	27,067	25,975	24,273	23,576	24,092	24,843	25,211	24,683	21,996	22,137	21,348
COD load		tons	336	303	322	313	262	277	288	298	276	249	237	222
Energy consumption (crude oil equivalent)		1,000 kl	216	208	221	210	210	212	198	211	212	184	179	183
GHG emissions		1,000 t-CO <sub>2</sub> e	666	657	671	669	668	684	666	675	674	586	570	587
	(inside number: CO <sub>2</sub> emissions)		665	655	670	667	667	682	665	674	673	584	569	586
SOx emissions		tons	741	742	672	270	244	190	137	295	189	15	9	120
NOx emissions		tons	1,237	1,220	1,295	1,240	1,298	1,350	1,349	1,196	1,179	1,006	1,120	1,116
Soot and dust emissions		tons	77	78	63	21	12	5	5	7	11	11	11	12
Ozone-layer depleting substance emissions		tons of CFC equivalent			0	0	0	0	0	0	0	0	0	0
Substances covered under JCIA's voluntary PRTR management program	No. of items		19	31	31	31	30	28	31	28	27	26	27	29
	Release	tons	1,956	1,470	1,275	1,097	990	981	970	970	674	506	458	560
	Transfer	tons	656	293	120	293	219	222	208	208	219	227	187	209
Substances covered under PRTR law	No. of items		10	17	17	16	17	16	17	16	15	14	15	18
	Release	tons	1,007	712	567	528	508	492	451	442	372	333	290	314
	Transfer	tons	355	96	8	110	114	115	121	108	124	76	99	119
Waste	Volume generated	tons	26,735	29,075	30,673	31,791	31,590	36,065	34,209	30,600	28,987	26,921	21,501	24,054
	Utilized internally	tons	5,057	5,081	3,847	4,484	4,611	3,601	2,506	2,742	2,271	2,089	2,062	1,899
	Utilized externally	tons	13,700	18,649	22,326	23,280	22,914	28,787	27,767	24,040	22,325	21,142	16,395	19,909
	Unutilized internally	tons	5,800	4,767	4,150	3,592	3,787	3,525	3,772	3,756	4,333	3,644	3,002	2,212
	Unutilized externally	tons	2,508	578	350	434	277	152	165	63	58	46	42	34

Kurashiki Plant (Tamashima area)

- (1) Address: 7471, Tamashima-otoshima, Kurashiki City, Okayama Prefecture
- (2) Site area: 410,000 m<sup>2</sup>
- (3) ISO 14001: Certification No. JQA-EM1213 (Certified on December 22, 2000)

Main products: Polyester fiber, poval film,

Total		Unit	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY2007	FY2008	FY2009	FY2010
Water use		1,000 m <sup>3</sup>	16,068	14,811	11,028	7,952	11,404	7,206	8,577	7,909	7,965	7,965	7,857	7,825
Effluent		1,000 m <sup>3</sup>	13,290	10,607	7,711	6,724	7,107	5,738	6,661	6,806	7,790	6,888	7,875	8,041
COD load		tons	238	174	48	44	42	25	34	28	30	31	32	36
Energy consumption (crude oil equivalent)		1,000 kl	57	41	38	42	39	41	42	42	39	32	37	42
GHG emissions		1,000 t-CO <sub>2</sub> e	191	207	111	115	85	99	112	87	117	146	148	147
	(inside number: CO <sub>2</sub> emissions)		211	181	97	101	75	87	93	71	100	121	123	122
SOx emissions		tons	170	111	52	33	36	15	34	9	20	12	19	26
NOx emissions		tons	157	122	94	76	77	100	84	91	76	93	85	79
Soot and dust emissions		tons	6	5	3	1	1	1	1	1	1	0	1	0
Ozone-layer depleting substance emissions		tons of CFC equivalent			0	0	0	0	0	0	0	0	0	0
Substances covered under JCIA's voluntary PRTR management program	No. of items		10	9	7	9	4	4	4	5	8	9	11	11
	Release	tons	88	15	1	3	0	3	15	28	47	30	36	32
	Transfer	tons	60	0	0	0	0	0	0	0	62	122	115	83
Substances covered under PRTR law	No. of items		8	6	6	6	2	2	1	2	3	3	7	5
	Release	tons	98	4	1	1	0	0	0	0	1	0	0	0
	Transfer	tons	59	0	0	0	0	0	0	0	4	3	6	1
Waste	Volume generated	tons	13,555	12,096	12,541	8,045	8,189	6,256	10,313	8,476	8,830	8,060	8,448	9,697
	Utilized internally	tons	1,624	2,890	343	338	323	161	1,368	1,745	1,099	1,051	1,170	2,072
	Utilized externally	tons	7,243	3,416	8,553	6,154	7,025	5,984	5,906	6,684	7,697	6,858	7,093	7,602
	Unutilized internally	tons	1,558	1,009	2,770	552	328	0	0	0	0	0	0	0
	Unutilized externally	tons	3,130	4,781	875	1,001	512	111	3,040	47	34	150	185	24

Kurashiki Plant (Sakazu area)

- (1) Address: 1621, Sakazu, Kurashiki City, Okayama Prefecture
- (2) Site area: 220,000 m<sup>2</sup>
- (3) ISO 14001: Certification No. JQA-EM1213 (Certified on December 22, 2000)

Main products: CLEARFIL and EPRICORD (dental materials),

Total		Unit	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY2007	FY2008	FY2009	FY2010
Water use		1,000 m <sup>3</sup>	1,927	2,310	2,399	2,182	2,182	2,000	2,743	2,164	1,005	996	305	792
Effluent		1,000 m <sup>3</sup>	1,848	1,852	1,752	1,560	1,644	1,554	1,700	1,416	661	461	269	409
COD load		tons	9	11	9	9	9	9	9	8	3	1	2	1
Energy consumption (crude oil equivalent)		1,000 kl	9	9	9	9	9	8	9	8	1	2	1	1
GHG emissions		1,000 t-CO <sub>2</sub> e	22	19	19	18	19	15	17	20	11	5	2	2
	(inside number: CO <sub>2</sub> emissions)		22	19	19	18	19	15	17	18	11	5	2	2
SOx emissions		tons	3	3	4	6	5	2	3	3	1	0	0	0
NOx emissions		tons	72	67	66	73	62	21	6	5	1	0	0	0
Soot and dust emissions		tons	1	1	1	1	1	1	0	0	0	0	0	0
Ozone-layer depleting substance emissions		tons of CFC equivalent			0	0	0	0	0	0	0	0	0	0
Substances covered under JCIA's voluntary PRTR management program	No. of items		9	21	22	16	13	12	14	8	4	5	5	5
	Release	tons	107	114	100	79	49	41	38	4	20	6	7	8
	Transfer	tons	160	210	193	193	169	119	88					

Saijo Plant.

(1) Address: 892, Tsutachi, Saijo City, Ehime Prefecture  
 (2) Site area: 541,000 m<sup>2</sup>  
 (3) ISO 14001: Certification No. JQA-EM1185 (Certified on December 15, 2000)

Main products: Poval film, Melt-blown Non-woven fabric, Polyester filament,  
 VECTRAN polyarylate fiber, KURAGEL PVA gel  
 GENESTAR (heat resistant polyamide resin),

	Unit	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY2007	FY2008	FY2009	FY2010
Water use	1,000 m <sup>3</sup>	12,968	12,968	11,563	13,088	12,778	13,763	13,819	11,133	11,217	10,680	9,953	11,371
Effluent	1,000 m <sup>3</sup>	13,028	13,028	11,508	13,177	13,748	14,028	13,171	10,628	10,691	9,866	9,095	10,443
COD load	tons	57	57	40	59	60	60	51	44	48	39	40	51
Energy consumption (crude oil equivalent)	1,000 kl	45	45	44	44	44	44	46	42	43	42	39	41
GHG emissions (inside number: CO2 emissions)	1,000 t-CO2e	125	132	145	144	145	153	137	142	141	139	131	137
		125	132	145	144	145	153	137	142	140	139	131	137
SOx emissions	tons	243	243	241	228	192	241	267	263	238	253	256	270
NOx emissions	tons	177	177	261	301	241	298	275	222	208	183	192	227
Soot and dust emissions	tons	20	20	19	38	16	9	13	12	28	10	10	11
Ozone-layer depleting substance emissions	tons of CFC equivalent			0	0	0	0	0	0	0	0	0	0
Substances covered under JCIA's voluntary PRTR management program	No. of items	6	9	10	12	10	9	11	12	13	11	10	12
	Release	tons	82	53	39	36	22	161	117	47	52	43	98
	Transfer	tons	456	524	302	96	4	1	2	4	5	4	1
Substances covered under PRTR law	No. of items	4	5	5	7	6	5	7	7	7	6	6	7
	Release	tons	17	4	2	5	5	3	5	5	5	5	4
	Transfer	tons	0	0	0	0	4	0	1	3	2	3	1
Waste	Volume generated	tons	10,504	8,197	4,906	5,069	4,888	5,932	6,117	5,749	4,831	6,475	6,479
	Utilized internally	tons	720	892	838	1,066	856	664	470	437	242	563	799
	Utilized externally	tons	8,001	5,754	3,393	3,805	3,710	4,253	5,586	5,259	4,546	5,855	5,637
	Unutilized internally	tons	23	0	0	0	0	0	0	0	0	0	0
	Unutilized externally	tons	1,760	1,551	675	198	322	1,015	61	52	43	56	42

Niigata Plant

(1) Address: 2-28, Kurashiki-cho, Tainai City, Niigata Prefecture  
 (2) Site area: 924,000 m<sup>2</sup>  
 (3) ISO 14001: Certification No. JQA-EM0801 (Certified on March 31, 2000)

Main products: Methacrylic resin for molding, Aromachemicals,  
 Poval resin, Pharmaceutical and agrochemical intermediates

	Unit	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY2007	FY2008	FY2009	FY2010
Water use	1,000 m <sup>3</sup>	31,457	29,146	28,761	30,606	30,125	32,765	33,297	33,297	32,831	27,751	26,808	29,006
Effluent	1,000 m <sup>3</sup>	31,937	30,076	29,009	29,216	28,650	32,042	30,880	30,030	30,022	27,029	25,878	26,958
COD load	tons	296	307	226	240	249	284	270	272	228	182	198	190
Energy consumption (crude oil equivalent)	1,000 kl	92	89	89	90	89	93	86	84	80	64	64	69
GHG emissions (inside number: CO2 emissions)	1,000 t-CO2e	262	261	222	215	205	214	201	186	172	138	133	150
		262	259	221	213	203	212	201	184	171	137	133	143
SOx emissions	tons	1,574	1,567	1,459	655	78	116	65	64	14	22	11	14
NOx emissions	tons	310	284	289	183	137	144	133	124	115	111	74	65
Soot and dust emissions	tons	49	30	39	23	35	44	19	9	14	14	6	0
Ozone-layer depleting substance emissions	tons of CFC equivalent			1	1	0	0	0	0	0	0	0	0
Substances covered under JCIA's voluntary PRTR management program	No. of items	30	56	43	37	45	40	43	42	39	38	32	38
	Release	tons	764	667	593	532	475	508	476	201	152	106	94
	Transfer	tons	398	398	546	481	175	103	145	108	35	34	17
Substances covered under PRTR law	No. of items	18	22	24	19	23	23	23	25	23	22	17	26
	Release	tons	177	144	81	68	69	102	83	55	95	58	51
	Transfer	tons	1	8	16	28	49	39	49	26	7	19	17
Waste	Volume generated	tons	15,276	14,456	18,950	27,991	27,840	29,468	28,406	24,032	19,007	14,304	14,162
	Utilized internally	tons	4,355	3,269	4,514	13,429	14,690	14,931	15,229	11,662	11,633	9,556	9,399
	Utilized externally	tons	6,428	7,719	10,608	10,397	9,582	11,662	10,506	10,184	5,260	4,344	4,511
	Unutilized internally	tons	3,275	2,711	2,150	2,303	2,229	2,056	2,178	1,820	1,893	242	132
	Unutilized externally	tons	1,218	757	1,671	1,862	1,339	819	492	366	222	162	120

Kashima Plant

(1) Address: 36, Touwada, kamisu City, Ibaraki Prefecture  
 (2) Site area: 408,000 m<sup>2</sup>  
 (3) ISO 14001: Certification No. JQA-EM0364 (Certified on March 12, 1999)

Main products: SEPTON (thermoplastic elastomer), industrial cleaner  
 HYBRAR (thermoplastic elastomer),

	Unit	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY2007	FY2008	FY2009	FY2010
Water use	1,000 m <sup>3</sup>	2,515	2,522	2,348	2,326	2,622	2,514	2,585	2,504	2,532	2,352	2,448	2,223
Effluent	1,000 m <sup>3</sup>	2,660	2,587	2,739	2,540	2,650	2,755	2,769	2,635	2,628	2,523	2,350	2,354
COD load	tons	94	91	94	87	88	88	96	91	90	86	80	82
Energy consumption (crude oil equivalent)	1,000 kl	60	57	57	61	76	68	73	69	77	68	71	70
GHG emissions (inside number: CO2 emissions)	1,000 t-CO2e	169	226	193	207	241	209	224	198	193	186	179	173
		169	225	193	207	241	209	224	198	193	186	179	173
SOx emissions	tons	-	-	-	-	-	-	-	-	-	-	-	-
NOx emissions	tons	46	54	54	47	42	44	41	43	41	38	36	40
Soot and dust emissions	tons	9	11	9	7	3	4	2	2	3	4	2	3
Ozone-layer depleting substance emissions	tons of CFC equivalent			0	0	0	0	0	0	0	0	0	0
Substances covered under JCIA's voluntary PRTR management program	No. of items	21	27	28	29	33	33	34	37	37	35	31	36
	Release	tons	527	744	591	475	434	436	446	383	340	282	145
	Transfer	tons	8	5	39	308	493	439	496	398	393	389	492
Substances covered under PRTR law	No. of items	10	15	15	15	18	18	16	20	19	18	14	24
	Release	tons	33	64	54	39	31	21	29	32	30	20	18
	Transfer	tons	1	5	8	52	127	203	226	152	151	190	279
Waste	Volume generated	tons	9,126	9,893	10,741	10,772	11,820	12,569	13,119	14,537	13,856	12,289	9,610
	Utilized internally	tons	34	46	45	6,094	8,974	9,336	9,919	10,147	10,146	9,364	6,799
	Utilized externally	tons	660	85	687	1,182	2,000	2,346	2,173	3,603	3,022	2,272	2,030
	Unutilized internally	tons	8,112	9,240	9,799	3,402	792	788	940	762	667	607	678
	Unutilized externally	tons	320	522	210	94	54	99	87	25	21	47	104

2. Domestic Affiliated Companies

Total													
	Unit	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY2007	FY2008	FY2009	FY2010
Water use	1,000 m <sup>3</sup>	2,102	2,045	1,957	1,865	2,006	2,095	2,030	1,917	1,684	896	945	
Effluent	1,000 m <sup>3</sup>	2,002	1,939	1,770	1,628	1,761	1,907	1,837	1,673	1,314	679	704	
COD load	tons	5	5	4	4	4	4	4	4	3	2	1	
Energy consumption (crude oil equivalent)	1,000 kl	13	15	15	14	14	15	14	16	14	13	13	
GHG emissions	1,000 t-CO <sub>2</sub> e	77	78	84	89	89	98	102	108	48	49	46	
(inside number: CO <sub>2</sub> emissions)		77	78	84	89	89	98	102	108	48	49	46	
SOx emissions	tons	42	65	48	38	29	33	29	27	36	15	13	
NOx emissions	tons	153	198	178	182	85	50	38	33	38	24	46	
Soot and dust emissions	tons	18	25	17	11	10	9	10	13	11	7	9	
Ozone-layer depleting substance emissions	tons of CFC equivalent	0	0	0	0	0	0	0	0	0	0	0	
Substances covered under JCIA's voluntary PRTR management	No. of items	8	7	14	14	13	15	17	15	15	12	8	
Release	tons	774	840	639	413	371	394	381	253	172	147	111	
Transfer	tons	31	31	87	64	57	45	27	27	19	20	14	
Substances covered under PRTR law	No. of items	8	7	7	7	7	8	9	8	8	5	2	
Release	tons	475	540	113	20	8	8	8	4	6	5	4	
Transfer	tons	1	1	64	43	41	25	6	3	4	5	3	
Waste	Volume generated	3,876	4,332	5,570	5,910	6,302	8,138	7,243	6,980	9,419	7,827	8,258	
	Utilized internally	10	36	1,410	1,301	1,691	1,523	1,247	1,022	338	197	105	
	Utilized externally	781	1,491	1,930	2,478	2,075	3,415	3,692	5,009	8,684	7,279	7,952	
	Unutilized internally	195	167	79	138	70	163	163	72	108	41	41	
	Unutilized externally	2,890	2,638	2,151	1,995	2,465	3,035	2,146	876	288	311	160	

Tsurumi Plant, Kuraray Chemical Co., Ltd.  
 (1) Address: 4342, Tsurumi, Bizen City, Okayama Prefecture  
 (2) Site area: 89,000 m<sup>2</sup>  
 (3) ISO 14001: Certification No. JQA-EM5426 (Certified on July 7, 2006)

Main products: Activated carbon, nitrogen gas separators  
 high performance activated carbon,

	Unit	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY2007	FY2008	FY2009	FY2010
Water use	1,000 m <sup>3</sup>	828	828	878	932	937	952	975	974	903	351	391	
Effluent	1,000 m <sup>3</sup>	730	724	692	697	695	766	784	746	659	183	232	
COD load	tons	4	4	3	3	3	3	4	4	3	2	1	
Energy consumption (crude oil equivalent)	1,000 kl	7.5	9.1	9.1	8.9	9.3	9.4	9.4	9.1	7.6	7.4	9	
GHG emissions	1,000 t-CO <sub>2</sub> e	65.8	67.5	72.3	79.1	80.2	87.1	91.2	94.4	35.0	36.8	38.3	
(inside number: CO <sub>2</sub> emissions)		65.8	67.5	72.3	79.1	80.2	87.1	91.2	94.4	35.0	36.8	38.3	
SOx emissions	tons	26.3	40.6	32.5	29.5	24.6	27.4	22.4	20.4	20.6	13.7	12.4	
NOx emissions	tons	73.5	122.0	97.0	116.2	61.2	39.7	28.8	24.6	31.3	21.3	44.3	
Soot and dust emissions	tons	15.6	21.0	13.8	9.0	9.2	7.5	8.3	11.9	10.2	5.8	8.6	
Ozone-layer depleting substance emissions	tons of CFC equivalent	0	0	0	0	0	0	0	0	0	0	0	
Substances covered under JCIA's voluntary PRTR management	No. of items	2	2	5	4	4	4	5	2	5	2	2	
Release	tons	0.0	8.3	10.6	10.8	1.7	6.2	1.5	1.5	1.4	1.0	3.1	
Transfer	tons	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Substances covered under PRTR law	No. of items	0	0	2	2	2	2	3	3	3	2	1	
Release	tons	—	—	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	
Transfer	tons	—	—	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Waste	Volume generated	2,426	2,586	3,852	3,831	4,371	5,994	5,447	5,249	7,717	6,305	6,920	
	Utilized internally	0	0	820	836	1,229	1,082	839	667	0	0	0	
	Utilized externally	70	342	875	1,311	1,216	2,493	2,792	4,070	7,716	6,301	6,916	
	Unutilized internally	147	140	79	27	0	0	0	0	0	0	0	
	Unutilized externally	2,209	2,104	2,078	1,657	1,926	2,419	1,815	512	1	4	4	

Ibuki Plant, Kuraray Plastics Co., Ltd.  
 (1) Address: 4330, Osa, Tarui-cho, Fuwa-gun, Gifu Prefecture  
 (2) Site area: 74,900 m<sup>2</sup>  
 (3) ISO 14001: Certification No. JQA-EM2934 (Certified on January 17, 2003)

Main products: Hoses, driving pipes, laminates, compounds

	Unit	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY2007	FY2008	FY2009	FY2010
Water use	1,000 m <sup>3</sup>	1,225	1,168	1,018	873	850	866	868	868	676	500	396	
Effluent	1,000 m <sup>3</sup>	1,225	1,168	1,018	873	850	866	868	868	676	497	393	
COD load	tons	1.4	1.2	0.7	0.5	0.2	0.2	0.2	0.1	0.1	0.3	0.2	
Energy consumption (crude oil equivalent)	1,000 kl	3.7	3.4	3.2	2.6	2.2	2.2	2.4	2.2	1.7	1.6	1.8	
GHG emissions	1,000 t-CO <sub>2</sub> e	7.3	6.7	6.3	4.9	4.1	4.0	4.9	4.7	3.5	3.2	3.3	
(inside number: CO <sub>2</sub> emissions)		7.3	6.7	6.3	4.9	4.1	4.0	4.9	4.7	3.5	3.2	3.3	
SOx emissions	tons	12.0	19.2	8.1	1.8	0.5	0.7	1.8	2.5	0.9	0.6	0.7	
NOx emissions	tons	9.0	6.3	5.1	2.2	1.2	0.7	1.8	1.7	1.0	0.7	0.9	
Soot and dust emissions	tons	0.0	1.8	1.3	0.5	0.1	0.1	0.3	0.2	0.1	0.2	0.1	
Ozone-layer depleting substance emissions	tons of CFC equivalent	0	0	0	0	0	0	0	0	0	0	0	
Substances covered under JCIA's voluntary PRTR management	No. of items	4	3	6	5	7	6	6	6	5	5	6	
Release	tons	426.0	496.0	380.0	358.0	344.0	360.0	352.0	221.6	145.3	125.8	91.7	
Transfer	tons	0.0	0.0	57.0	55.0	48.0	35.0	16.0	14.0	7.7	11.1	6.1	
Substances covered under PRTR law	No. of items	4	3	4	3	4	4	4	3	3	3	4	
Release	tons	426.0	496.0	75.0	6.7	2.1	1.7	0.3	0.5	0.3	0.8	0.9	
Transfer	tons	0.0	0.0	57.0	39.9	39.0	23.0	3.8	2.2	1.7	3.3	3.5	
Waste	Volume generated	585	970	1,078	1,096	1,081	987	868	971	840	693	568	
	Utilized internally	0	0	97	83	59	42	24	17	0	0	0	
	Utilized externally	100	701	980	959	752	607	656	691	601	535	510	
	Unutilized internally	25	24	0	0	0	0	0	0	0	0	0	
	Unutilized externally	460	245	1	54	269	336	187	263	239	158	59	

Kuraray Fastening Co., Ltd.  
 (1) Address: 56, Nouno, Maruoka-cho, Sakai-gun, Fukui prefecture  
 (2) Site area: 22,950 m<sup>2</sup>  
 (3) ISO 14001: Certification No. JQA-EM3326 (Certified on August 22, 2003)

Main products: MAGICTAPE (hook and loop fastener), MAGILOCK (molded plastic hook and loop fastener)

	Unit	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY2007	FY2008	FY2009	FY2010
Water use	1,000 m <sup>3</sup>	6	6	6	6	7	7	8	8	8	7	8	
Effluent	1,000 m <sup>3</sup>	6	6	6	6	7	7	8	8	8	7	8	
COD load	tons	—	—	—	—	—	—	—	—	—	—	—	
Energy consumption (crude oil equivalent)	1,000 kl	1.0	1.0	1.0	1.0	1.1	1.5	1.3	1.3	1.2	1.2	1.4	
GHG emissions	1,000 t-CO <sub>2</sub> e	1.4	1.3	1.9	1.8	2.1	2.9	2.5	2.6	2.8	2.6	2.2	
(inside number: CO <sub>2</sub> emissions)		1.4	1.3	1.9	1.8	2.1	2.9	2.5	2.6	2.8	2.6	2.2	
SOx emissions	tons	—	—	—	—	—	—	—	—	—	—	—	
NOx emissions	tons	—	—	—	—	—	—	—	—	—	—	—	
Soot and dust emissions	tons	—	—	—	—	—	—	—	—	—	—	—	
Ozone-layer depleting substance emissions	tons of CFC equivalent	0	0	0	0	0	0	0	0	0	0	0	
Substances covered under JCIA's voluntary PRTR management	No. of items	4	6	4	6	5	5	6	6	6	4	3	
Release	tons	314	298.2	210.0	18.0	15.9	18.6	20.9	24.6	21.7	16.8	15.3	
Transfer	tons	30	29.4	29.0	9.1	8.6	9.9	10.8	12.7	11.1	8.7	7.7	
Substances covered under PRTR law	No. of items	2	2	2	4	3	3	4	4	4	2	1	
Release	tons	30	27.2	20.0	4.6	3.1	3.4	4.4	0.8	4.3	2.7	2.4	
Transfer	tons	0	0.0	3.0	2.4	2.1	2.3	2.5	0.7	2.2	1.6	1.2	
Waste	Volume generated	292	284	164	203	223	292	273	260	275	255	240	
	Utilized internally	10	10	69	70	101	122	131	155	122	25	0	
	Utilized externally	155	80	75	41	28	79	75	44	127	181	221	
	Unutilized internally	23	0	0	0	0	0	0	0	0	0	0	
	Unutilized externally	104	194	20	92	95	91	68	61	26	49	20	

Okayama Plant, Kuraray Trading Co., Ltd.

(1) Address: 1099, Aza-Shinden, Oaza-Kawabe, Mabi-cho, Kibi-gun, Okayama Prefecture

(2) Site area: 5,780 m<sup>2</sup>

Main products: Industrial resin belts

	Unit	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY2007	FY2008	FY2009	FY2010
Water use	1,000 m <sup>3</sup>		2	2	2	2	2	2	2	1	1	3	3
Effluent	1,000 m <sup>3</sup>										1	3	3
COD load	tons												
Energy consumption (crude oil equivalent)	1,000 kl		0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.3	0.2	0.2
GHG emissions	1,000 t-CO <sub>2</sub> e		0.6	0.6	0.6	0.6	0.6	0.7	0.8	0.6	0.6	0.5	0.6
(inside number: CO <sub>2</sub> emissions)			0.6	0.6	0.6	0.6	0.6	0.7	0.8	0.6	0.6	0.5	0.6
SOx emissions	tons		3.0	3.9	5.5	4.5	2.1	3.1	3.3	3.3	0.2	0.2	0.2
NOx emissions	tons		67.0	66.0	73.0	62.0	21.0	5.8	5.0	5.0	0.6	0.6	0.4
Soot and dust emissions	tons		1.0	1.2	0.8	0.9	0.6	0.2	0.2	0.2	0.2	0.2	0.1
Ozone-layer depleting substance emissions	tons of CFC equivalent			0	0	0	0	0	0	0	0	0	0
Substances covered under JClA's voluntary PRTR management	No. of items		2	2	4	3	3	1	2	1	1	1	1
Release	tons		15.5	18.0	22.6	16.5	0.3	0.3	0.2	0.2	0.2	0.2	0.2
Transfer	tons		1.4	1.4	0.5	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Substances covered under PRTR law	No. of items		1	1	2	1	2	0	1	0	0	0	0
Release	tons		0.0	0.0	7.9	5.9	0.1	-	0.0	-	-	-	-
Transfer	tons		1.4	1.4	0.5	0.2	0.1	-	0.0	-	-	-	-
Waste	Volume generated		26	32	26	29	22	26	37	24	24	29	34
Utilized internally	tons		26	25	20	25	21	26		22	23	27	30
Utilized externally	tons		0	0	0	4	1	6		2	1	3	4
Unutilized internally	tons		0	0	0	0	0	0	36	0	0	0	0
Unutilized externally	tons		0	7	6	0	0	0	2	0	0	0	0

Hokkaido Plant, Kuraray Interior Co., Ltd.

(1) Address: 194, Okayama, Mikasa City, Hokkaido Prefecture

(2) Site area: 76,720 m<sup>2</sup>

Main products: Folkcraft furniture

		FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY2007	2008年度	2009年度	FY2010
Water use	1,000 m <sup>3</sup>		4	4	3	3	3	2	2	1	1	1	1
Effluent	1,000 m <sup>3</sup>		4	4	3	3	2	2	2	1	1	1	1
COD load	tons												
Energy consumption (crude oil equivalent)	1,000 kl		0.6	0.6	0.5	0.5	0.4	0.5	0.4	0.3	0.3	0.1	0.1
GHG emissions	1,000 t-CO <sub>2</sub> e		1.4	1.4	1.3	1.2	1.1	1.1	1.0	0.8	0.6	0.3	0.3
(inside number: CO <sub>2</sub> emissions)			1.4	1.4	1.3	1.2	1.1	1.1	1.0	0.8	0.6	0.3	0.3
SOx emissions	tons		1.0	1.0	1.7	1.7	1.5	1.9	1.4	0.9	0.9	0.5	0.5
NOx emissions	tons		3.3	3.3	2.6	2.0	2.0	3.3	2.6	1.6	1.7	0.9	0.9
Soot and dust emissions	tons		1.0	1.0	0.8	0.6	0.5	1.0	0.8	0.5	0.5	0.3	0.3
Ozone-layer depleting substance emissions	tons of CFC equivalent			0	0	0	0	0	0	0	0	0	0
Substances covered under JClA's voluntary PRTR management	No. of items		2	5	4	3	4	4	2	2	2	2	1
Release	tons		19.0	19.9	15.4	9.2	8.6	8.6	6.5	5.0	3.2	3.2	1.0
Transfer	tons		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Substances covered under PRTR law	No. of items		2	2	2	1	1	1	1	1	1	1	1
Release	tons		19.0	17.1	9.8	3.2	2.7	2.7	2.9	2.8	1.8	1.8	1.0
Transfer	tons		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Waste	Volume generated		573	466	444	334	317	276	239	197	124	130	68
Utilized internally	tons		0	0	399	292	270	249	220	184	116	121	64
Utilized externally	tons		456	368	0	0	0	0	0	0	0	0	0
Unutilized internally	tons		0	3	0	1	0	0	0	0	0	0	0
Unutilized externally	tons		117	95	45	42	46	27	19	13	8	9	5

\*1 Dissolved a company in March, 2010

### 3. Overseas Affiliated Companies

EVAL Europe N.V. (certified to ISO 14001 in May 2006)

Kuraray Europe GmbH, PVA/PVB Division (certified to ISO 14001 in November 1998)

Kuraray Europe GmbH, Trosifol Division (certified to ISO 14001 in May 2006)

Kuraray Europe GmbH, OOO Trosifol (certified to ISO 14001 in July 2006)

Kuraray America Inc. EVAL BU (certified to ISO 14001 in February 2000)

Kuraray America Inc. SEPTON BU (certified to ISO 14001 in September 2003)

Kuraray Asia Pacific Pte.Ltd. ( certified to ISO 14001 in November 2003 )

Kuraray Magictape (Shanghai) Co., Ltd.

Kuraray Chemical (Ningxia) Environmental Industry Co., Ltd.

Kuraray Methacrylate (Zhang Jia Gang) Co., Ltd.

		Unit	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY2007	FY2008	FY2009	FY2010
Water use		1,000 m <sup>3</sup>	1,483	1,604	1,931	1,261	2,518	2,482	2,787	3,071	2,520	3,482
Effluent		1,000 m <sup>3</sup>	1,880	1,973	2,220	2,420	2,844	2,751	2,906	3,023	3,017	3,681
TOC release		tons	1,285	1,357	1,764	1,846	2,243	2,764	2,813	2,695	2,085	2,095
Energy consumption (crude oil equivalent)		1,000 kl	143	156	173	175	213	209	226	238	200	233
CO <sub>2</sub> emissions		1,000 tons of CO <sub>2</sub> equivalent	324	344	376	385	474	475	471	549	420	482
SOx emissions		tons	0	0	0	0	0	0	0	0	0	0
NOx emissions		tons	2	10	27	6	16	17	21	14	5	6
Substances covered under PRTR law	No. of items		5	5	5	5	5	6	12	12	12	12
	Release	tons	116	126	121	117	155	204	191	163	107	143
	Transfer	tons	607	466	416	359	599	1,011	910	818	1,145	1,920
Waste	Volume generated	tons	3,409	2,266	2,792	5,736	4,954	5,468	7,801	4,475	10,049	7,446
	Disposed externally	tons	3,409	2,266	2,792	5,736	4,954	5,468	7,801	4,475	10,049	7,446
	Utilized externally	tons	1,579	648	1,199	3,538	3,122	3,856	5,750	3,928	3,816	4,767
	Landfill	tons	156	428	740	880	1,037	1,160	881	965	524	557

\* Since TOC emissions are treated by outside wastewater treatment businesses, the amount of discharge to public water areas is substantially lower than the above figures.

\* Data for overseas affiliated companies is not included in the Kuraray Group total in the Kuraray CSR Report.