

**Release and transfer volume of substances covered by PRTR law from Kuraray plants,
research laboratories and domestic affiliated companies in FY 2008**

1. This table shows the substance used more than one ton in each plant. (Specified Class 1 designated chemical substances are more than 0.5 ton).
2. Unit; metric ton (excepting dioxins; mg-TEQ for dioxins)
3. In this table, the values include affiliated companies in the plant.
Each company submits the official notice; therefore some figures in this table may not be same with the officially notified figures.
4. The official notice is two significant figure. (Unit; kg)

Okayama Plant (including Kuraray Engineering Co., Ltd., Kuraray Kuraflex Co., Ltd., Kuraray Okayama Spinning Co., Ltd., Kuraray Techno Co., Ltd.)
1-2-1, Kaigan-dori, Kita-ku, Okayama 702-8601, Japan

CAS No	substance	emissions volume				transport volume			
		atmosphere	water area	soil	total	waste	recycled	sewage works	total
75-07-0	acetaldehyde	1.7253			1.7253				0.0000
—	antimony and its compounds				0.0000				0.0000
107-21-1	ethylene glycol				0.0000	0.0013			0.0013
60-00-4	ethylenediaminetetraacetic acid				0.0000				0.0000
75-56-9	1,2-epoxypropane				0.0000				0.0000
108-05-4	vinyl acetate	41.4485			41.4485	0.3260			0.3260
68-12-2	N,N-dimethylformamide	98.5440	7.6466		106.1906	72.3801			72.3801
108-88-3	toluene	134.4781	0.3649		134.8430	3.4293			3.4293
123-31-9	hydroquinone				0.0000				0.0000
822-06-0	hexamethylene diisocyanate				0.0000				0.0000
—	boron and its compounds		48.5381		48.5381				0.0000
—	poly(oxyethylene) alkyl ether (alkyl C=12-15)				0.0000	0.0046			0.0046
50-00-00	formaldehyde	0.7481			0.7481	0.0110			0.0110
101-77-9	4,4'-methylenedianiline				0.0000				0.0000
—	dioxins	0.2280	21.5564		21.7844	0.00010			0.00010

Kurashiki Plant (excluding Sakazu area) (including Kuraray Tamashima Co., Ltd., Kuraray Medical Inc., Ltd.,
Kuraray Techno Co., Ltd., Kuraray Engineering Co., Ltd.)

7471, Tamashimaotoshima, Kurashiki, Okayama 713-8550, Japan

CAS No	substance	emissions volume				transport volume			
		atmosphere	water area	soil	total	waste	recycled	sewage works	total
107-21-1	ethylene glycol		0.1234		0.1234	3.1310			3.1310
68-12-2	N,N-dimethylformamide				0.0000				0.0000
100-21-0	terephthalic acid				0.0000				0.0000
—	dioxins	3.7347	0.0282		3.7629	0.7647			0.7647

Kurashiki Plant (Sakazu area) (including Kuraray Medical Inc., Kuraray Techno Co., Ltd.)

1621, Sakazu, Kurashiki, Okayama 710-8622, Japan

CAS No	substance	emissions volume				transport volume			
		atmosphere	water area	soil	total	waste	recycled	sewage works	total
67-66-3	chloroform	0.2023			0.2023	2.1145			2.1145
108-88-3	toluene	0.5498			0.5498	6.6577			6.6577
68-12-2	N,N-dimethylformamide		0.0195		0.0195	0.7616			0.7616

* There is no dioxins.

Niigata Plant (including Kyosei Chemical Co., Ltd., Nihonkai Acetylene Co., Ltd., Kuraray Techno Co., Ltd.)

2-28, Kurashiki-cho, Tainai, Niigata 959-2691, Japan

CAS No	substance	emissions volume				transport volume			
		atmosphere	water area	soil	total	waste	recycled	sewage works	total
79-10-7	acrylic acid				0.0000				0.0000
96-33-3	methyl acrylate	0.4648			0.4648				0.0000
75-07-0	acetaldehyde	0.3885			0.3885				0.0000
78-67-1	2,2'-Azodiisobutyronitrile	0.0740			0.0740		0.0150		0.0150
100-41-4	ethyl benzene	1.8070			1.8070				0.0000
1330-20-7	xylene	2.7100	2.6570		5.3670				0.0000
108-05-4	vinyl acetate	4.2753			4.2753		7.3850		7.3850
143-33-9	inorganic cyanide compounds	0.7200	0.0900		0.8100	0.4930			0.4930
56-23-5	tetrachloromethane	0.0013			0.0013				0.0000
100-42-5	styrene	0.0598			0.0598	1.2510			1.2510
108-88-3	toluene	0.1090			0.1090		24.9000		24.9000
—	lead and its compounds				0.0000	7.2030			7.2030
—	barium and its water-soluble compounds				0.0000				0.0000
123-31-9	hydroquinone				0.0000				0.0000
117-81-7	bis(2-ethylhexyl) phthalate				0.0000				0.0000
108-31-6	maleic anhydride				0.0000				0.0000
79-41-4	methacrylic acid	0.0290			0.0290	3.6920			3.6920
80-62-6	methyl methacrylate	42.2990	2.1940		44.4930	6.3220	9.7200		16.0420
—	dioxins	0.0049	2.1890		2.1939	0.0010			0.0010

Kashima Plant (including Kuraray Techno Co., Ltd.)

36, Towada, Kamisu, Ibaraki 314-0197, Japan

CAS No	substance	emissions volume				transport volume			
		atmosphere	water area	soil	total	waste	recycled	sewage works	total
—	zinc compounds (water-soluble)		0.7640		0.7640			0.4250	0.4250
78-79-5	isoprene	4.0932			4.0932			1.3997	1.3997
100-41-4	ethylbenzene	0.2033			0.2033				0.0000
75-21-8	ethylene oxide				0.0000				0.0000
111-87-5	1-octanol	0.0879			0.0879				0.0000
67-66-3	chloroform				0.0000	0.3250			0.3250
68-12-2	N,N-dimethylformamide				0.0000				0.0000
100-42-5	styrene	0.2474			0.2474	3.4255			3.4255
100-21-0	terephthalic acid				0.0000	38.2740			38.2740
108-88-3	toluene	13.1279			13.1279	96.9258		1.3670	98.2928
—	nickel compounds				0.0000	2.8823	1.4450	2.8900	7.2173
106-99-0	1,3-butadiene	0.7223			0.7223				0.0000
—	poly(oxyethylene) alkyl ether (alkyl C=12-15)				0.0000			14.7755	14.7755
50-00-0	formaldehyde	0.1014			0.1014			25.6072	25.6072
108-31-6	maleic anhydride				0.0000			0.1140	0.1140
80-62-6	methyl methacrylate	0.2925			0.2925				0.0000
98-83-9	α -methylstyrene				0.0000				0.0000
—	molybdenum and its compounds				0.0000			0.0310	0.0310
—	dioxins	0.2119			0.2119			0.0518	0.0518

Saijo Plant (including Kuraray Saijo Co., Ltd., Kuraray Techno Co., Ltd., Kuraray Kikoh Co., Ltd.)

892, Tsuitachi, Saijo, Ehime 793-8585, Japan

CAS No	substance	emissions volume				transport volume			
		atmosphere	water area	soil	total	waste	recycled	sewage works	total
75-07-0	acetaldehyde	0.4070			0.4070				0.0000
—	antimony and its compounds				0.0000				0.0000
107-21-1	ethylene glycol	0.8724			0.8724				0.0000
123-91-1	1,4-dioxane		3.5043		3.5043	1.0278			1.0278
100-21-0	terephthalic acid				0.0000				0.0000
108-95-2	phenol	0.0120	0.0993		0.1114	2.1539			2.1539

* There is no dioxins.

Tsukuba Research Laboratories

41, Miyukigaoka, Tsukuba, Ibaraki 305-0841, Japan

* There is no substances covered by PRTR law.

* There is no dioxins.

Tsurumi Plant, Kuraray Chemical Co., Ltd. (including KC Processing Co., Ltd.)

4342, Tsurumi, Bizen, Okayama 705-0025, Japan

CAS No	substance	emissions volume				transport volume			
		atmosphere	water area	soil	total	waste	recycled	sewage works	total
—	silver and its water-soluble compounds				0.0000				0.0000
108-88-3	toluene				0.0000				0.0000

* There is no dioxins.

Ibuki Plant, Kuraray Plastics Co., Ltd. (including Ibuki Kosan Co., Ltd.)

4330, Osa, Tarui-cho, Fuwa-gun, Gifu 503-2122, Japan

CAS No	substance	emissions volume				transport volume			
		atmosphere	water area	soil	total	waste	recycled	sewage works	total
103-23-1	bis(2-ethylhexyl) adipate				0.0000	0.2550			0.2550
108-88-3	toluene	0.7580			0.7580				0.0000
117-81-7	bis(2-ethylhexyl) phthalate				0.0000	3.0580			3.0580

* There is no dioxins.

Hokkaido Plant, Kuraray Interior Co., Ltd.

194, Okayama, Mikasa, Hokkaido 068-2165, Japan

CAS No	substance	emissions volume				transport volume			
		atmosphere	water area	soil	total	waste	recycled	sewage works	total
108-88-3	toluene	1.8000			1.8000				0.0000

* There is no dioxins.

Maruoka Plant, Kuraray Fastening Co., Ltd.

56, Nouno, Maruoka-cho, Sakai, Fukui 910-0273, Japan

CAS No	substance	emissions volume				transport volume			
		atmosphere	water area	soil	total	waste	recycled	sewage works	total
1163-19-5	decabromodiphenyl ether				0.0000	0.1680			0.1680
108-88-3	toluene	2.7451			2.7451	1.3970			1.3970

* There is no dioxins.

Okayama Plant, Kuraray Trading Co., Ltd

1099, Kawabe, Mabi-cho, Kurashiki, Okayama 710-1313, Japan

* There is no substances covered by PRTR law.

* There is no dioxins.