

Release and transfer volume of substances covered by PRTR law from Kuraray plants, research laboratories and domestic affiliated companies in FY 2014 (Jan.-Dec.)

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)

1. Kuraray Co., Ltd.

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, Minami-ku, Okayama 702-8601, Japan

CAS No	substance	emissions volume				transfer volume			
		atmosphere	water area	soil	total	waste	recycled	sewage works	total
75-07-0	acetaldehyde	0.882			0.882				
141-43-5	2-aminoethanol								
-	antimony and its compounds								
60-00-4	ethylenediaminetetraacetic acid								
75-56-9	1,2-epoxypropane								
108-05-4	vinyl acetate	19.877			19.877				
108-05-4	vinyl acetate	26.034			26.034	1.099			1.099
124-40-3	dimethylamine	5.238			5.238				
68-12-2	N,N-dimethylformamide	87.461	1.305		88.766	53.984			53.984
151-21-3	sodium dodecyl sulfate								
108-88-3	toluene	77.407	0.010		77.417	2.976			2.976
*	vanadium compound (vanadium conversion)					158.102			
*	vanadium compound (vanadium conversion)						0.004		
822-06-0	hexamethylene diisocyanate								
*	boron and its compounds		44.321		44.321				
-	poly(oxyethylene) alkyl ether								
9004-82-4									
50-00-0	formaldehyde	0.718				0.000			
1321-94-4	methylnaphthalene	0.017			0.017				
-	dioxins	0.226	0.779		1.005	0.003			0.003

Kurashiki Plant (Tamashima area) (including Kuraray Tamashima Co., Ltd., Kuraray Medical Inc., Ltd., Kuraray Techno 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
108-05-4	vinyl acetate	0.083			0.083	1.590			1.590
127-19-5	N,N-dimethylacetamide								
68-12-2	N,N-dimethylformamide								
100-21-0	terephthalic acid					0.153			0.153
-	poly(oxyethylene) alkyl ether								
7705-08-0	ferric chloride								
1321-94-4	methylnaphthalene	0.0652			0.065				
-	dioxins	2.601	0.002		2.603				

Kurashiki Plant (Sakazu area) (including Kuraray Medical Inc., Kurashiki Research Center, 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	0.262			0.262	2.808			2.808
108-88-3	toluene	0.451			0.451	5.991			5.991
110-54-3	n-hexane	0.356			0.356	1.069			1.069

* There is no dioxins.

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	0.484			0.484				
-	antimony and its compounds								
7705-08-0	ferric chloride						0.062		0.062
123-91-1	1,4-dioxane		2.329		2.329	0.049			0.049
100-21-0	terephthalic acid								
108-95-2	phenol	0.106	0.204		0.310	2.950			2.950
50-00-0	formaldehyde					0.045			0.045
111-30-8	glutaraldehyde								
1321-94-4	methylnaphthalene	0.008			0.008				

* There is no dioxins.

Niigata Plant (including Kyosei Chemical 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
141-2-2	n-butyl acrylate	0.275			0.275	36.234			36.234
96-33-3	methyl acrylate	0.415			0.415		0.260		0.260
75-07-0	acetaldehyde	0.337			0.337				
75-86-5	acetone cyanohydrin (production)								
75-86-5	acetone cyanohydrin (consumption)								
78-67-1	2,2'-azodiisobutyronitrile								
107-18-6	allyl alcohol								
149-57-5	2-ethylhexanoate					6.059			6.059
100-41-4	ethyl benzene								
-	xylene								
108-05-4	vinyl acetate	4.520			4.520		5.112		5.112
-	inorganic cyanide compounds (hydrogen cyanide)						0.004		0.004
-	inorganic cyanide compounds (sodium cyanide)								
-	inorganic cyanide compounds								
56-23-5	tetrachloromethane	0.003			0.003				
75-09-2	dichloromethane								
77-73-6	dicyclopentadiene					2.075			2.075
100-42-5	styrene	0.054			0.054	2.009			2.009
505-32-8	3,7,11,15-tetramethylhexadeca-1-en-3-ol	0.045	0.000		0.046				
121-44-8	triethylamine					0.689			0.689
108-88-3	toluene	6.409	0.809		7.217	198.539	30.810		229.349
*	lead and its compounds					10.988			10.988
-	nickel compounds								
117-81-7	bis(2-ethylhexyl) phthalate								
110-54-3	n-hexane	0.459			0.459	4.779			4.779
-	manganese and its compounds								
108-31-6	maleic anhydride								
79-41-4	methacrylic acid (production)	0.029			0.029				
79-41-4	methacrylic acid (consumption)					5.374			5.374
80-62-6	methyl methacrylate (production)	3.700			3.700				
80-62-6	methyl methacrylate (consumption)	42.676	0.074		42.750	26.656	9.466		36.122
128-37-0	butylated hydroxytoluene					0.064			0.064
110-00-9	furan								
75-05-8	acetonitrile								
111-87-5	1-octanol	0.004							
-	dioxins								

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)		0.356		0.356	0.264		0.264	0.528
141-32-2	n-butyl acrylate								
78-79-5	isoprene (production)	1.795			1.795	16.060		16.060	32.120
78-79-5	isoprene (consumption)	1.842			1.842				
149-57-5	2-ethylhexanoic acid					34.780		34.780	69.560
100-41-4	ethylbenzene	0.280			0.280				
75-21-8	ethylene oxide								
111-87-5	1-octanol	0.023			0.023				
98-82-8	cumene	0.420			0.420				
128-37-0	2,6-di-tert-butyl-4-methylphenol								
100-42-5	styrene	0.252			0.252	1.268			1.268
100-21-0	terephthalic acid								
121-44-8	triethylamine								
108-88-3	toluene	0.178			0.178	2.991		0.000	2.991
-	nickel compounds					2.106	0.650	2.106	4.862
106-99-0	1,3-butadiene	1.254			1.254				
110-00-9	furan	0.018			0.018			0.018	0.018
110-54-3	n-hexane	18.820			18.820	0.446		0.146	0.592
-	poly(oxyethylene) alkyl ether					2.686		2.686	5.372
50-00-0	formaldehyde	0.110			0.110	25.295		25.295	50.589
108-31-6	maleic anhydride					0.034		0.034	0.067
80-62-6	methyl methacrylate								
98-83-9	α-methylstyrene								
101-68-8	methylenebis(4,1-phenylene) diisocyanate					2.470			2.470
-	molybdenum and its compounds								
-	dioxins	0.090			0.090	0.000		0.001	0.001

Tsukuba Research Center

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

* There is no substances covered by PRTR law.

* There is no dioxins.

2. Domestic Affiliated Companies

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
108-88-3	toluene	14.818			14.818				
-	xylene	0.091			0.091				
95-63-6	1,2,4-trimethylbenzene	0.105			0.105				

* 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
97-77-8									
108-88-3	toluene	0.344			0.344	1.056			1.056
117-81-7	bis(2-ethylhexyl) phthalate					2.979			2.979
149-30-4									
1321-94-4	methylnaphthalene	0.144			0.144				

* There is no dioxins.

Maruoka Plant, Kuraray Fastening Co., Ltd.

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

CAS No	substance	emissions volume				transport volume			
		atmosphere	water area	soil	total	waste	recycled	sewage works	total
108-88-3	toluene	1.3176			1.318	0.6706			0.671
1321-94-4	methylnaphthalene	0.023			0.023				

* 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.