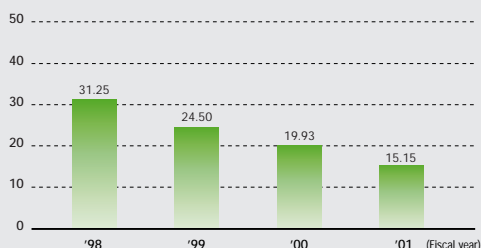


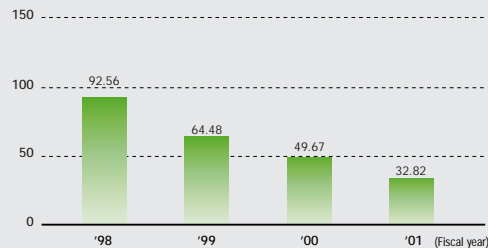
Chemical Substances Emission Results

Changes in Chemical Substances Emission Volume: We are reducing our use of chemical substances through ongoing efforts in such areas as usage volume reduction, adoption of substitutes, review of our production processes and conversion of our manufacturing facilities.

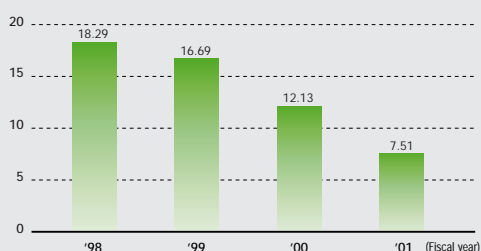
Xylene Emissions (Fujitsu Group) (Unit: tons)



Toluene Emissions (Fujitsu Group) (Unit: tons)



Xylene Emissions (Fujitsu) (Unit: tons)



Toluene Emissions (Fujitsu) (Unit: tons)



PRTR Transfer/Emission Results

Changes in PRTR Transfer/Emission Volumes: We are complying with the PRTR Law by conducting appropriate management of chemical substances, from purchase to disposal, and calculating the transferral/disposal of chemical substances.

Fujitsu

(Unit: kg)

Name of Class I designated chemicals	Number of Class I designated chemicals	Use/processing volume	Emission volume				Transferred volume		Volume recycled/removed/consumed
			Emission into air	Emission into public area water	Emission into soil at site (except landfill)	Landfill at site	Transfer into sewerage	Transfer off-site (except into sewerage)	
2-aminoethanol	16	372505.0	465.0	0.0	0.0	0.0	0.0	253534.0	118506.0
Asbestos	26	5149.0	674.0	0.0	0.0	0.0	0.0	0.0	4475.0
4,4'-Polymer of 4,4'-isopropylidenediphenol and 1-chloro-2,3-epoxypropane (or bisphenol A type epoxy resin)	30	415.5	0.0	0.0	0.0	0.0	0.0	0.5	415.0
Ethylene glycol	43	1297.3	58.0	0.0	0.0	0.0	0.0	1216.3	23.0
Ethylene glycol monoethyl ether	44	745.4	0.0	0.0	0.0	0.0	0.0	745.4	0.0
Ethylene glycol monomethyl ether	45	684.5	0.0	0.0	0.0	0.0	0.0	684.5	0.0
Ethylenediamine	46	126.0	13.0	0.0	0.0	0.0	0.0	110.0	3.0
Xylene	63	45764.3	7498.3	0.0	0.0	0.0	0.0	25887.4	12378.7
Silver and its water-soluble compounds	64	2.9	0.0	0.0	0.0	0.0	0.0	2.9	0.0
2-ethoxyethyl acetate (or ethylene glycol monoethyl ether acetate)	101	1262.9	239.0	0.0	0.0	0.0	0.0	804.9	219.0
Inorganic cyanide compounds (except complex salts and cyanates)	108	5189.0	0.0	32.0	0.0	0.0	0.0	5157.0	0.0
Copper salts (water-soluble, except complex salts)	207	462662.0	0.0	850.1	0.0	0.0	14.7	123569.7	338227.5
1,3,5-trimethylbenzene	224	23.9	1.0	0.0	0.0	0.0	0.0	22.1	0.8
Toluene	227	693.6	212.4	0.0	0.0	0.0	0.0	478.4	2.8
Lead and its compounds	230	12392.1	0.0	21.0	0.0	0.0	0.0	858.4	11512.7
Nickel	231	2111.0	0.0	0.0	0.0	0.0	0.0	9.3	2101.7
Nickel compounds	232	5988.0	0.0	310.0	0.0	0.0	0.0	290.0	5388.0
Arsenic and its inorganic compounds	252	607.0	0.0	0.0	0.0	0.0	0.0	0.0	607.0
Hydrazine	253	19804.0	0.0	0.1	0.0	0.0	0.0	880.0	18923.9
Hydroquinone	254	387.0	0.0	0.0	0.0	0.0	0.0	30.0	357.0
Piperazine	258	150.0	0.0	0.0	0.0	0.0	0.0	150.0	0.0
Phenol	266	441.6	88.2	0.0	0.0	0.0	0.0	0.0	353.4
Hydrogen fluoride and its water-soluble salts	283	169468.2	490.9	22594.2	0.0	0.0	652.3	122464.7	23266.0
Boron and its compounds	304	4331.0	0.0	88.8	0.0	0.0	0.0	4240.0	2.2
Poly(oxyethylene) nonylphenyl ether	309	8.3	0.3	0.0	0.0	0.0	0.0	8.0	0.0
Formaldehyde	310	157264.4	0.0	0.0	0.0	0.0	0.0	588.0	156676.4
Manganese and its compounds	311	16074.1	0.0	48.2	0.0	0.0	0.0	15807.9	218.0
317) 2-(diethylamino)ethyl methacrylate	317	131.0	0.0	0.0	0.0	0.0	0.0	0.0	131.0
Molybdenum and its compounds	346	6.6	0.1	0.0	0.0	0.0	0.0	6.0	0.5
Total		1285685.7	9740.2	23944.4	0.0	0.0	667.0	557545.5	693788.6

Name of Class I designated chemicals	Number of Class I designated chemicals	Use/ processing volume	Emission volume				Transferred volume		Volume recycled/ removed/ consumed
			Emission into air	Emission into public area water	Emission into soil at site (except landfill)	Landfill at site	Transfer into sewerage	Transfer off-site (except into sewerage)	
Zinc compounds (water-soluble)	1	7104.6	0.0	0.0	0.0	0.0	0.0	207.8	6896.8
2-aminoethanol	16	417961.3	474.0	1256.7	0.0	0.0	0.0	293543.3	122687.3
n-alkylbenzenesulfonic acid and its salts (alkyl C=10-14)	24	200.0	200.0	0.0	0.0	0.0	0.0	0.0	0.0
Antimony and its compounds	25	1867.5	0.0	0.0	0.0	0.0	0.6	808.0	1058.9
Asbestos	26	5149.0	674.0	0.0	0.0	0.0	0.0	0.0	4475.0
4,4'-Polymer of 4,4'-isopropylidenediphenol and 1-chloro-2,3-epoxypropane (or bisphenol A type epoxy resin)	30	9375.1	227.5	0.0	0.0	0.0	0.0	18.5	9129.1
Ethylbenzene	40	301.0	298.0	0.0	0.0	0.0	0.0	3.0	0.0
Ethylene glycol	43	17930.3	69.7	404.4	0.0	0.0	0.0	9678.4	7777.7
Ethylene glycol monoethyl ether	44	14972.2	1507.8	1600.0	0.0	0.0	0.0	10595.4	1269.0
Ethylene glycol monomethyl ether	45	2661.3	413.5	82.0	0.0	0.0	0.0	859.5	1306.3
Ethylenediamine	46	126.0	13.0	0.0	0.0	0.0	0.0	110.0	3.0
Xylene	63	317961.8	13456.4	0.0	0.0	0.0	0.0	40830.4	263675.1
Silver and its water-soluble compounds	64	1381.1	0.0	6.5	0.0	0.0	2.0	20.9	1351.7
Chromium and chromium (III) compounds	68	2315.4	0.0	0.0	0.0	0.0	0.0	909.6	1405.8
Chlorodifluoromethane (or HCFC-22)	85	23000.0	2300.0	0.0	0.0	0.0	0.0	227.7	22747.3
Cobalt and its compounds	100	3228.0	0.0	0.0	0.0	0.0	0.0	31.0	3197.0
2-ethoxyethyl acetate (or ethylene glycol monoethyl ether acetate)	101	2750.7	246.4	0.0	0.0	0.0	0.0	969.9	1534.4
Inorganic cyanide compounds (except complex salts and cyanates)	108	50507.0	1674.0	80.5	0.0	0.0	0.0	5647.0	43105.5
Cyclohexylamine	114	270.0	110.0	0.0	0.0	0.0	160.0	0.0	0.0
2,2-dichloro-1,1,1-trifluoroethane (or HCFC-123)	124	540.0	540.0	0.0	0.0	0.0	0.0	0.0	0.0
o-dichlorobenzene	139	17000.0	4300.0	0.0	0.0	0.0	0.0	12700.0	0.0
Dichloropentafluoropropane (or HCFC-225)	144	4782.0	2651.0	0.0	0.0	0.0	0.0	1746.0	385.0
N,N-dimethylformamide	172	25.9	25.9	0.0	0.0	0.0	0.0	0.0	0.0
Styrene	177	9580.0	8622.0	0.0	0.0	0.0	0.0	0.0	958.0
Thiourea	181	2205.4	0.0	0.0	0.0	0.0	31.0	0.0	2174.4
Copper salts (water-soluble, except complex salts)	207	1047642.9	14.7	1225.9	0.0	0.0	14.7	131033.9	915353.8
1,3,5-trimethylbenzene	224	23.9	1.0	0.0	0.0	0.0	0.0	22.1	0.8
Toluene	227	35390.5	24410.6	0.8	0.0	0.0	0.0	3260.1	7719.0
Lead and its compounds	230	142688.6	0.0	30.2	0.0	0.0	0.3	67026.5	75631.7
Nickel	231	30726.0	0.0	9.1	0.0	0.0	0.0	589.3	30127.6
Nickel compounds	232	43460.6	151.6	516.0	0.0	0.0	49.0	1258.0	41486.0
Nonylphenol	242	420.0	15.0	0.0	0.0	0.0	0.0	400.0	5.0
Arsenic and its inorganic compounds	252	807.0	0.0	0.0	0.0	0.0	13.0	75.0	719.0
Hydrazine	253	21293.0	98.0	3.9	0.0	0.0	150.0	880.0	20161.2
Hydroquinone	254	517.0	6.0	0.0	0.0	0.0	0.0	154.0	357.0
Piperazine	258	150.0	0.0	0.0	0.0	0.0	0.0	150.0	0.0
Phenol	266	8699.4	2088.2	0.0	0.0	0.0	0.7	6100.0	510.4
Di-n-butyl phthalate	270	5192.0	350.1	0.0	0.0	0.0	0.0	870.0	3971.9
Hydrogen fluoride and its water-soluble salts	283	216323.0	1007.4	24638.2	0.0	0.0	1263.3	161444.7	27969.3
Boron and its compounds	304	20631.0	11.7	3848.6	0.0	0.0	0.0	10506.8	6263.9
Poly(oxyethylene) alkyl ether (alkyl C=12-15)	307	248.0	0.0	48.0	0.0	0.0	0.0	200.0	0.0
Poly(oxyethylene) nonylphenyl ether	309	8.3	0.9	0.0	0.0	0.0	0.0	8.0	0.0
Formaldehyde	310	192602.6	304.6	121.3	0.0	0.0	0.0	951.0	191225.6
Manganese and its compounds	311	3006264.6	11.7	56.3	0.0	0.0	0.0	77159.8	2929036.9
Methacrylic acid	314	4.0	0.0	0.0	0.0	0.0	0.0	0.4	3.6
2-(diethylamino)ethyl methacrylate	317	131.0	0.0	0.0	0.0	0.0	0.0	0.0	131.0
Methyl-1,3-phenylene diisocyanate (or m-tolylene diisocyanate)	338	146032.0	0.0	0.0	0.0	0.0	0.0	0.0	146032.0
Molybdenum and its compounds	346	233.4	0.1	226.8	0.0	0.0	0.0	6.0	0.5
Total		6039684.5	66274.3	34155.2	0.0	0.0	1684.6	840959.1	5096611.4

Effects on the Ecology and Standards for Emissions by Plants of the Main PRTR-targeted Substances Used by the Fujitsu Group

Substance name/ Classification	PRTR substance number	Status when in use	Ministry of the Environment Ecological Toxicity (Unit: mg/l) ^{*2}									Standard air pollution value (Standard for plant emissions)		Standard water pollution value (Standard for discharge from plant)	
			Algae			Water fleas			Fish			Standard value under Law on Air Pollution Prevention	Fujitsu internal management value (reference-standard)	Standard value under Law on Water Pollution Prevention	Fujitsu internal management standard value (reference)
			Growth prevention		Acute swimming prevention	Breeding prevention		Acute toxicity	Extended toxicity						
			72hr ~ EC50	72hr ~ NOEC	48hr ~ EC50	21day ~ EC50	21day ~ NOEC	96hr ~ LC50	14day ~ LC50	14day ~ LC50					
Manganese and its compounds	311	Liquids	-	-	-	-	-	-	-	-	-	-	-	10mg/l	1mg/l
Copper salts (water-soluble, except complex salts)	207	Liquids	-	-	-	-	-	-	-	-	-	-	-	10mg/l	1mg/l
2-aminoethanol ^{*1}	16	Liquid (organic solvent)	2.8	1	97	2.5	0.85	>100	>100	100	-	-	-	-	-
Xylene	63	Liquid (organic solvent)	-	-	-	-	-	-	-	-	-	100ppm	-	-	5mg/l
Toluene	227	Liquid (organic solvent)	43.3	9.7	4.13	2.35	1.17	25.4	10.5	0.72	-	50ppm	-	-	5mg/l

*1 2-aminoethanol is used primarily in the electronic parts washing process within a closed system. It is then refined for reuse or collected without being discharged into air or water areas as waste.

*2 Ministry of the Environment Ecology Toxicity

- Algae growth prevention test: Effect on growth and breeding of algae during exposure to chemical substances for 72 hours, targeting algae (unicellular green algae) that are producers in the water system food chain (50% growth prevention effect concentration: EC 50; no-effect concentration: NOEC).
- Water flea acute swimming prevention test: Effect on water flea swimming activity during exposure to chemical substances for 48 hours, targeting water fleas (crustaceans) that are primarily consumers in the water system food chain (50% swimming prevention effect concentration: EC 50).
- Water flea breeding prevention test: Effect on water flea breeding activity during exposure to a chemical substance for 21 days, targeting water fleas (crustaceans) that are primarily consumers in the water system food chain (50% breeding prevention effect concentration: EC 50; no-effect concentration: NOEC).
- Fish acute toxicity test: Effect on fish during exposure to chemical substances for 96 hours, targeting fish (Japanese killifish) that are upper-level consumers in the water system food chain (50% lethal concentration: LC 50).
- Fish extended toxicity test: Effect on fish during exposure to a chemical substance for 14 days, targeting fishes (Japanese killifish) that are upper-level consumers in the water system food chain (50% lethal concentration: LC 50; no-effect concentration: NOEC).
- EC50: Concentration of a tested substance calculated when the effect is apparent in 50% of tested organisms compared with a control group (group not exposed to the tested substance). For algae, this is the concentration at which the cell density decreases to 50% in 72 hours.
- NOEC: The highest test concentration at which the effect on tested organisms does not indicate significant differences compared with a control group.
- LC50: Concentration of tested substance calculated at a level causing death to 50% of tested organisms.