ISO14001 Certification Acquisition Results

The Fujitsu Group as a whole is working toward ISO14001 certification acquisition to promote Group-wide EMS operation.

Results of ISO14001 Certification Acquisition (Total: 85 sites)

Fujitsu Group [in Japan]

Certified plant/site	Date of certification
PFU	October 1996
Yamagata Fujitsu	May 1997
Fujitsu Ten (Headquarters Plant)	June 1997
(Nakatsugawa Plant)	August 1997
Shin-Etsu Fujitsu	July 1997
Fujitsu Tohoku Electronics	Sontombor 1007
(Headquarters)	Sehrennner 1997
Kyushu Fujitsu Electronics	Octobor 1007
(Kagoshima site)	OCIODEI 1997
Fujitsu VLSI (Kozoji/Gifu areas)	December 1997
Shinko Electric Industries (Takaoka /Kyogase Plants)	March 1998
(Arai Plant)	March 1999
(Wakaho Plant)	July 1999
(Kouhoku Plant)	September 2002
Fujitsu I-Network Systems	April 1009
(Yamanashi Plant)	April 1990
Fujitsu Frontech (Niigata Plant)	April 1998
(Tokyo Plant)	October 1998
FDK (Sanyo Plant)	July 1998
(Kosai site)	October 1998
Fujitsu Components	July 1008
(Technical Development Center)	July 1770
Fujitsu Peripherals (Headquarters Plant)	August 1998

Certified plant/site	Date of certification		
Shinano Fujitsu	August 1998		
Fujitsu Quantum Devices (Headquarters site)	August 1998		
Fujitsu Access (FDS Shimodate Plant)	September 1998		
(FDS Kyowa Plant)	November 1998		
(FDS Sekijo Plant)	December 1998		
(FDS Shimodate area integrated)	August 1999		
(Headquarters site)	November 2000		
Fujitsu Miyagi Electronics	November 1998		
Fujitsu Hitachi Plasma Display	November 1998		
Fujitsu Isotec	December 1998		
Fujitsu Kasei (Headquarters/Yokohama Plant)	December 1998		
Fujitsu Media Devices			
(Suzaka site)	September 1997		
(Shin-Yokohama site, other)	February 1999		
Fujitsu Automation (Headquarters)	March 1999		
Shimane Fujitsu	March 1999		
Fujitsu Network Solutions	March 1999		
Fujitsu Nishi-Nihon Communication Systems	June 1999		
Fujitsu FIP (Headquarters, other)	December 1999		
Fujitsu Logistics	December 1000		
(Tokyo Distribution Center)	December 1999		
Fujitsu Support & Service	March 2000		
Fujitsu Kyushu Digital Technology	March 2000		

Certified plant/site	Date of certification
Fujitsu CoWorCo	March 2000
(Headquarters and main sites)	
Fujitsu Wireless Systems	April 2000
Fujitsu Business Systems	luly 2000
(Support Services Headquarters)	July 2000
Fujitsu Oita Software Laboratories	October 2000
Fujitsu Display Technologies	February 2001
Fujitsu Devices	
(Headquarters and Central Distribution Center)	March 2001
(Kyoto Sales Office)	April 2003
Fujitsu Kansai Systems (Headquarters)	May 2001
Fujitsu Personal System (Headquarters)	August 2001
Fujitsu AMD Semiconductor	Marah 2002
(Kadota/Takaku Plant)	IVIdI CIT 2002
Fujitsu Leasing (Headquarters)	March 2002
Totalizator Engineering	September 2000
Fujitsu Kochi Systems Engineering	August 2002
Fujitsu Nagano Systems Engineering	January 2003

Fujitsu Group [Overseas]

Certified plant/site	Date of certification
Fujitsu ICL Espana (Malaga factory)	April 1998
Fujitsu Microelectronics Malaysia	May 1998
Fujitsu (Thailand)	May 1998
Fujitsu Quantum Devices Singapore	May 1998
Fujitsu Component Malaysia	July 1998
Fujitsu Computer Products Corporation	Nevember 1000
of the Philippines	NOVEITIDEI 1998
Jiangsu Fujitsu Telecommunications Technology	December 1998
Fujitsu Network Communications	April 1999
Fujitsu Computer Products of Vietnam	October 1999
Fujitsu IT Holdings (FTSI-Batavia, Illinois)	June 2001
Xian Fujitsu Telecommunications Equipment	June 2001
Nantong Fujitsu Microelectronics	June 2001
Fujitsu Telecommunications Europe	
(Birmingham)	January 2002
(Cambridge)	January 2002

Fujitsu

Certified plant/site	Date of certification
Numazu Plant (BS7750 certification acquisition)	September 1995
Shift to ISO14001	September 1996
Nasu Plant	March 1996
Iwate Plant	September 1996
Mie Plant	December 1996
Aizuwakamatsu Plant	February 1997
Nagano Plant	March 1997
Kumagaya Plant	June 1997
Akashi Plant	August 1997
Oyama Plant	November 1997
Fujitsu Laboratories (Atsugi area)	November 1998
Minami-Tama Plant	February 1999
Solution Business Group (Kyushu R&D Center)	February 2000
Kawasaki area (Kawasaki Plant, Akiruno TC,	
YRP Research & Development Center, others)	March 2000
Tatebayashi Systems Center	March 2000
Kansai Systems Laboratory	January 2002
Headquarters (corporate strategy, personnel, advertising, general affairs)	March 2003
Kyoto Branch Office / Shiga Branch	April 2003

Green Product Evaluation Standard

Fujitsu began conducting product environmental assessments using 43 criteria in fiscal 1993 with the aim of designing new products to prevent pollution and lower the environmental burden. "Green Products" are those with superior environmental performance characteristics. To earn this designation, products must score at least 90 points on a product environmental assessment and conform to all the relevant Green Product Evaluation Standards the company has adopted as a global environmental measure.

Common Standards Applicable to All Products

Major category	Characteristic		Common standards						
Product environmental	Overall assessment		Overall score of at least 90 points, with no score of zero on any assessment criterion						
Decourse concervation	Product durability	(1)	Forwing supproble product structures that support functional or performance improvements						
Resource conservation			Ensuing expandable product subclutes that support runctional or performance improvements						
	Draduat warrantias	(2)	(voi applicable to electronic paris, portable products, unit products, customer-specified products).						
	Product warranties	(2)	Extension or unconditional manufacturers warranties on products sold in Japan by six months and or indise for PC products by one year						
	Deduction in the state of the second	(0)	(Not applicable to electronic parts, products for markets outside Japan, customer-specified products)						
	Reduction in product weight, volume,	(3)	Achievement of at least one of the following criteria for product weight, volume and number of parts, plus substantial improvements in remaining criteria						
	number of parts		relative to past products:						
			1) 10% + reduction in product weight compared to past products, or 30% + reduction per unit of performance						
			2) 10% + reduction in volume compared to past products, or 30% + reduction per unit of performance a specific section of the section of th						
		(1)	3) 10% + reduction in number of parts compared to past products, or 30% + reduction per unit of performance						
	Ratio of recyclable of easily	(4)	Achievement or a usage ratio or recyclable or easily recyclable plastics or at least 90% for products with a minimum of 25 grams or plastic by weight						
	recyclable plastics used	(5)	(Not applicable to electronic parts, PCBs inside products)						
	Potential resource recyclability	(5)	Use of potentially resource-recyclable parts for a minimum of 75% of product weight; minimum use of 50% for portable products with LCD unit or monitor (Not applicable to electronic parts)						
Recyclable design	Plastic parts	(6)	Labeling of all plastic parts (excluding packaging materials) weighing more than 25 grams and/or of parts with flat surface areas exceeding 200 mm ² .						
			maximized labeling of materials irrespective of weight or surface area						
			(Not applicable to electronic parts)						
		(7)	Minimized painting or coating of any plastic parts weighing more than 25 grams						
			(Not applicable to electronic parts)						
		(8)	Elimination of PVC use in plastic parts						
			(Not applicable to cable coatings, insulation materials for electronic parts)						
	Primary/secondary batteries	(9)	Products whose batteries are changed by the user: adoption of structures permitting battery exchange or removal						
		(10)	Products whose batteries are not changed by the user: adoption of structures permitting battery exchange or removal without complete PCB exchange						
	Disassembly and separation capabilities	(11)	ermitting separation and disassembly into component materials or units (separated as devices, PCBs, cables, plastic parts, and metal parts) by ha						
	with general-purpose tools								
			(Not applicable to electronic parts, equipment with automatic movement features, artificial satellites, undersea relay devices, Defense Agency						
			products, wireless equipment covered by radio spectrum-related legislation)						
		(12)	Creation of manuals for equipment disassembly						
			(Not applicable to electronic parts, secret components)						
Limitation of	Use of PBB, PBBO or	(13)	Freedom of plastic parts from PBB (polybrominated biphenyl), PBBO (polybrominated biphenyl oxide), or chlorinated hydrocarbons						
chemicals contents	chlorinated hydrocarbons	(14)	Freedom of printed circuit boards from PBB (polybrominated biphenyl), PBBO (polybrominated biphenyl oxide) or chlorinated hydrocarbons						
	Lead	(15)	Freedom of in-house manufactured products from lead solder						
Prevention of	LCA	(16)	Assessment of product carbon dioxide emissions						
global warming									
Energy saving	Energy-saving function	(17)	Products to be equipped with an energy-saving function						
			(Not applicable to electronic parts, customer-specified products, equipment for which an energy-saving function is not permitted)						
	Power consumption	(18)	Reduction in average power consumption per unit of product performance from previous products						
Environmental information	—	(19)	Inclusion in product documentation of information on waste product collection and recycling system						
disclosure			(Not applicable to electronic parts, customer-specified products)						
Manual	—	(20)	All documents for external use to be produced using a minimum of 70% recycled paper; elimination of plastic coatings from cover sheets						
Packaging	Resource conservation	(21)	Use of a minimum of 70% recycled paper in cardboard						
		(22)	Minimized use of packaging materials: over 5% reduction in packaging materials compared with previous products, or reduction of empty space to less						
			than 30%						
	Recyclable design	(23)	Elimination of all kinds of plastic attachments that prevent recycling from paper materials						
		(24)	Compliance of labels on packaging and plastic parts with the following standards:						
			1) Labeling of all plastic parts weighing more than 20 grams (more than 10 grams in case of plastic foam)						
			2) Location of labels in easy to see positions						
		(25)	Elimination of PVCs from plastic materials used in packaging						
		(26)	Use of only easily recyclable plastics or paper as protective bag materials						
	Hazardous chemical restrictions	(27)	Freedom from PBB (polybrominated biphenyl) or PBBO (polybrominated biphenyl oxide)						

Category-specific Standards (Electronic Parts)

Major category	Characteristic		Category-specific standards					
Environmental ISO	All electronic devices	(1)	Establishment and operation of EMS meeting ISO14001 standards or similar EMS at all manufacturing and related sites					
Chemical substances	LSIs	(2)	Ability to issue usage-free certificates for any chemicals whose use in a given product is prohibited					
information disclosure		(3)	Ability to label products with the amounts of compounds containing any of the following chemicals: arsenic, halogens, antimony, organic phosphorus, nickel					
Chemical substances	LSIs	(4)	Ability to use lead-free solder in manufacturing					
composition regulations								
Packaging materials	Recyclable design	(5)	Restriction of use of expanded plastic foam in packaging materials to maximum of 20% of total packaging weight					

Category-specific Standards (Portable/compact products weighing less than 3 kg)

Major category	Characteristic		Category-specific standards					
Resource	Recycled plastics/reused parts	(1)	Use of at least one or more recycled plastic or reused part for product parts					
conservation	(magnetic disk devices, scanners)							
Energy saving	Compliance with the Energy	(2)	Inclusion in product catalogs of a display based on the Energy Saving Law, plus attainment of target standards for fiscal 2005					
	Saving Law (magnetic disk devices)		(top runners) specified in the Energy Saving Law					
	Compliance with the International	(3)	Attainment of restraint values for the low-electricity mode specified in the International Energy Star Program and completion of					
	Energy Star Program (scanners)		application for registration					
Chemical substances	LCD units and products	(4)	Assessment of mercury content in LCD fluorescent pipes					
composition regulations	employing them	(5)	Restriction of mercury content in LCD fluorescent pipes to 5 mg or less per pipe					
Packaging materials	Recyclable design	(6)	Restriction of use of plastic foam in packaging materials to maximum of 10% of total packaging weight					

Category-specific Standards (Medium-sized/large products weighing 3 kg or more)

Major category	Characteristic		Category-specific standards
Resource	Recycled plastics/reused parts	(1)	Use of at least one or more recycled plastic or reused part for product parts
conservation	(electronic calculators, magnetic disk devices, scanners)		
Energy saving	Compliance with the Energy Saving Law	(2)	Inclusion in product catalogs of a display based on the Energy Saving Law, plus attainment of target standards for fiscal 2005
	(electronic calculators, magnetic disk devices)		(top runners) specified in the Energy Saving Law
	Compliance with the International Energy Star	(3)	Attainment of restraint values for the low-electricity mode specified in the International Energy Star Program and completion of
	Program (electronic calculators, scanners)		application for registration
Chemical substances	LCD units and products	(4)	Assessment of mercury content in LCD fluorescent pipes
composition regulations	employing them	(5)	Restriction of mercury content in LCD fluorescent pipes to under 5 mg per pipe
Packaging materials	Recyclable design	(6)	Restriction of use of plastic foam in packaging materials to maximum of 10% of total packaging weight

Category-specific Standards (Personal computers)

Major category	Characteristic		Category-specific standards						
Resource	Maintenance parts supply	(1)	Guaranteed supply of maintenance parts for a minimum of 5 years after completion of manufacture						
conservation	Recycled plastics/reused parts	(2)	Use of at least one or more recycled plastics or reused parts for product parts						
	Ratio of reused resources	(3)	Completion of calculation of resources reuse ratio for the following machinery based on the Effective Resources Use Promotion Law						
			Desktop PCs, main body: 50 % or more						
			Notebook PCs: 20% or more						
			CRTs/LCDs: 55% or more						
Recyclable design	Plastic parts	(4)	Use of polymers (homo-polymers, co-polymers) or polymer alloys for any plastic parts of products weighing 25 grams or more						
		(5)	mination of metal implants (types of inserts) for any plastic parts of products weighing 25 grams or more (not applicable to metal implants allowing						
			disassembly with general-purpose tools)						
Chemical substances	Primary/secondary batteries	(6)	Freedom from cadmium, mercury and lead						
composition regulations	CRT	(7)	Freedom from cadmium						
Energy saving	Compliance with the	(8)	Inclusion in product catalogs of a display based on the Energy Saving Law, plus attainment of target standards for fiscal 2005						
	Energy Saving Law		(top runners) specified in the Energy Saving Law						
	Compliance with the International	(9)	Attainment of electricity consumption values during low-power mode operation and in the deep sleep display mode specified in the						
	Energy Star Program		International Energy Star Program and completion of application for registration						
	Guaranteed operation after	(10)	Normally operational after four or more weeks without power supply						
	long-term neglect		(with disappearance of such timer data as date and time not considered a fault)						
Environmental	—	(11)	Inclusion in product documentation of information on long-term use						
information		(12)	Inclusion in product documentation of information on cadmium, cyanogens, lead, chromium, arsenic, mercury, fluorine, boron, selenium and antimony, if included in the product						
disclosure		(13)	Inclusion in product documentation of information on energy consumption (power on/off status, maximum and minimum electricity consumption, ways to						
			minimize energy consumption)						
Packaging materials	Recyclable design	(14)	Satisfaction of the below standard values for plastic foam use						
			Restriction of use of plastic foam in packaging materials for main PC bodies to maximum of 10% of total packaging weight						
			 Restriction of use of plastic foam in packaging materials for displays to maximum of 20% of total packaging weight 						

Category-specific Standards (Printers/Large-format printers)

Major optogony	Characteristic		Catagory apositio atopdarda
Major category	Characteristic		Category-specific standards
Resource	Maintenance parts supply	(1)	Supply of maintenance parts guaranteed for a minimum of 5 years after completion of manufacture
conservation	Recycled plastics/reused parts	(2)	Use of recycled plastics or reused parts in product parts
Recyclable design	Plastic parts	(3)	Use of polymers (homo-polymers, co-polymers) or polymer alloys for any plastic parts or large cases weighing 25 grams or more
		(4)	Use of maximum of four types of separable polymers (homo-polymers, co-polymers) or polymer alloys for any plastic part or case weighing 25 grams or more
	Ease of separation/decomposition	(5)	Easy identification of product joints required for separation
		(6)	Provision of grip points and manipulation space for dismantling tools in products
Chemical substances	Plastic	(7)	No use of lead or cadmium in plastic parts comprising cases or case parts
composition	Primary/secondary batteries	(8)	Freedom from cadmium, mercury and lead
regulations	Toner, ink, ink ribbons	(9)	Freedom from R-number substances cited in German government hazardous substances ordinance §4a
		(10)	Freedom from carcinogens (TRGS905, TRGS900: Care.Cat1, 2, 3 in EC category or MAK value list 1, 2, 3]
		(11)	Freedom from mutagenic substances (TRGS905, TRGS900: Mut.Cat1, 2, 3 in EC category or M1, 2, 3)
		(12)	Freedom from level 1, 2A, 3B carcinogens in classification of IARC (International Agency for Research on Cancer)
		(13)	Freedom from cadmium, mercury, lead and hexavalent chromium and its compounds
	Photo conductor drums	(14)	Freedom from cadmium, mercury and lead
Chemical substances	Manufacturing process	(1E)	Frances from anone deviating substances (substances listed in annondiu tables A. P. C. of Mantreal Dedecall in manufacturing process
usage regulations		(15)	riedum num ozone-depreting substances (substances insted in appendix tables A, B, C or moniterial Protocol) in manufacturing process
Energy saving	Compliance with International Energy Star Program	(16)	Attainment of electricity consumption values in the low-electricity mode specified in the International Energy Star Program and completion of application for registration
	With power OFF	(17)	Power consumption of 2W or below when power OFF
	Guarantee of proper operation after long-term neglect	(18)	Normal operation assured after four weeks or more out of use with power cord unplugged
Environmental informati	on provision	(19)	Description of information concerning energy consumption (power OFF status, maximum consumption electricity, method of minimizing energy consumption) in
			documents provided with products
Collection/recycling systems	Toner cartridges	(20)	Collection and recycling of toner cartridges
Printing paper	Use of recycled paper	(21)	Ability to use paper recycled from wastepaper for printing
	Reduction of usage volume	(22)	Inclusion of functions to reduce volume of paper used in printing (two-sided printing, reduced printing, underprint, etc.)
Packaging materials	Recyclable design	(23)	Restriction of use of plastic foam in packaging materials to maximum 20% of total packaging weight

Results for PRTR Law-compatible Substance Balance in Fujitsu Group

	Number of			Emissior	n volume		Transferre	Volume	
Name of Class I designated chemicals		Use/ processing volume	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)	recycled/ removed/ consumed
Zinc compounds (water-soluble)	1	6589.4	0.0	0.0	0.0	0.0	0.0	0.0	6589.4
2-aminoethanol	16	477433.0	143.9	420.0	0.0	0.0	0.0	335612.8	141256.3
Antimony and its compounds	25	418.0	0.0	0.0	0.0	0.0	0.6	9.0	409.0
4,4'-Polymer of 4,4'-isopropylidenediphenol and									
1-chloro-2,3-epoxypropane	30	7818.6	240.0	0.0	0.0	0.0	0.0	4998.1	2580.5
(or bisphenol A type epoxy resin)									
Ethylene glycol	43	19319.2	14.9	403.0	0.0	0.0	0.0	8037.4	10864.0
Ethylene glycol monoethyl ether	44	7273.8	875.4	0.0	0.0	0.0	0.0	5402.4	996.0
Ethylene glycol monomethyl ether	45	774.6	0.0	0.0	0.0	0.0	0.0	774.6	0.0
Xylene	63	313899.7	7861.5	0.0	0.0	0.0	0.0	23584.4	282453.9
Silver and its water-soluble compounds	64	458.0	0.0	0.0	0.0	0.0	0.6	8.8	448.6
Chlorodifluoromethane (or HCFC-22)	85	1442.4	144.24	0.0	0.0	0.0	0.0	0.0	0.0
Cobalt and its compounds	100	4443.0	0.0	0.0	0.0	0.0	0.0	61.0	4382.0
2-ethoxyethyl acetate (or ethylene glycol monoethyl ether acetate)	101	1984.0	5.3	0.0	0.0	0.0	0.0	1978.7	0.0
Inorganic cyanide compounds (excent complex salts and cyanates)	108	38630.8	0.0	20.0	0.0	0.0	0.0	12.6	38598.2
o-dichlorobenzene	139	18989.2	5146.8	0.0	0.0	0.0	0.0	13842.4	0.0
Dichloropentafluoropropane (or HCEC-225)	144	250.0	250.0	0.0	0.0	0.0	0.0	0.0	0.0
Copper salts (water-soluble, except complex salts)	207	811713.7	0.0	557.1	0.0	0.0	64.8	8037.0	803054.8
Trichlorofluoromethane (CFC-11)	217	104.6	104.6	0.0	0.0	0.0	0.0	0.0	0.0
1,3,5-trimethylbenzene	224	4216.4	161.8	0.0	0.0	0.0	0.0	0.0	4054.6
Toluene	227	19864.5	13688.1	7.0	0.0	0.0	0.0	766.5	5402.9
Lead and its compounds	230	191263.8	0.0	28.8	0.0	0.0	0.2	9591.6	181643.2
Nickel	231	59318.8	0.0	576.5	0.0	0.0	8.0	202.6	58531.7
Nickel compounds	232	106607.8	0.0	594.5	0.0	0.0	2.2	2196.2	103814.9
Nonylphenol	242	518.6	18.7	0.0	0.0	0.0	0.0	499.9	0.0
Arsenic and its inorganic compounds	252	158.8	0.0	0.0	0.0	0.0	12.1	69.0	77.7
Hydrazine	253	1208.0	489.6	0.1	0.0	0.0	0.0	612.0	106.3
Hydroquinone	254	381.3	0.0	0.0	0.0	0.0	0.0	202.6	178.7
Pyrocatechol	260	12985.0	0.0	0.0	0.0	0.0	0.0	12985.0	0.0
Phenol	266	9094.1	2370.0	0.0	0.0	0.0	0.0	6590.7	133.4
Hydrogen fluoride and its water-soluble salts	283	214709.3	1442.3	32301.7	0.0	0.0	1024.3	127522.1	52419.0
Boron and its compounds	304	28277.7	0.0	5200.0	0.0	0.0	0.0	5206.5	17871.2
Poly(oxyethylene) alkyl ether (alkyl C=12-15)	307	2908.0	1.9	18.0	0.0	0.0	0.0	2809.0	79.1
Poly(oxyethylene) nonylphenyl ether	309	468.0	0.0	94.0	0.0	0.0	0.0	0.0	374.0
Formaldehyde	310	8019.4	0.0	0.0	0.0	0.0	0.0	20.0	7999.4
Manganese and its compounds	311	995779.3	0.0	52.6	0.0	0.0	0.0	29345.3	966381.4
Methacrylic acid	314	360.0	0.0	360.0	0.0	0.0	0.0	0.0	0.0
2-(diethylamino)ethyl methacrylate	317	265.5	0.0	0.0	0.0	0.0	0.0	0.0	265.5
Molybdenum and its compounds	346	252.0	0.0	0.0	0.0	0.0	0.0	8.0	244.0
Total		3368198.4	34257.1	40633.3	0.0	0.0	1112.2	600986.1	2691209.7

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

Name of Class I designated Chemicals	Number of Class I designated chemicals	Status when in use	Ministry of the Environment Ecological Toxicity [Unit: mg/ ℓ] $^{\star 2}$								Standard air pollution value (Standard for plant emissions)		Standard water pollution value (Standard for discharge from plant)	
			Algae		Water fleas			Fish			Standard value under	Fujitsu internal	Standard value under	Fujitsu internal
			Growth prevention		Acute swimming prevention	wimming Pention Breeding prevention		Acute toxicity	Extended toxicity		Law on Air Pollution	management value	Law on Water	management standard
			72hr ~ EC50	72hr ~ NOEC	48hr ~ EC50	21day ~ EC50	21day ~ NOEC	96hr ~ LC50	14day ~ LC50	14day ~ LC50	Prevention	(referencest andard)	Pollution Prevention	value (reference)
Manganese and its compounds	311	Liquid	-	-	-	-	-	-	-	-	-	-	10mg/ <i>l</i>	1mg/ l
Copper salts (water-soluble, except complex salts)	207	Liquid	-	-	-	-	-	-	-	-	-	-	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-aminoelthanol 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 Aminoelthanol 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 Aminoelthanol 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 Aminoelthanol is used primarily concentration: NOEC).
Water flea acute swimming prevention effect concentration is the 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 test: Effect on neutration: EC 50).
Water flea breeding prevention test: Effect on 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 acute toxicity test: Effect on fish during exposure to a chemical substance for 14 days, targeting fishs (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 fishs (Japanese killifish) that are upper-level consumers in the water system food chain (50% lethal concentration: LC 50); no-effect concentration. INDEC).
Fish extended to

ECS0: 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.
 LCS0: Concentration of tested substance calculated at a level causing death to 50% of tested organisms.

(Unit: kg)