

EPEAT4.7.2.2 Public disclosure of supply chain toxics

The following information comprises the toxic release data, listed in the Japanese Pollutant Release and Transfer Register (PRTR), from suppliers for the following parts/components contained within one EPEAT registered product:

- Integrated circuit/semiconductor
- Unpopulated printed circuit board
- Motor

Information, including calculations, of the substances included in this disclosure was gathered from the following website of Japanese Ministry of Economy, Trade and Industry

<https://www.meti.go.jp/press/2022/03/20230303001/20230303001.html>

(in japanese)

and/or from supplier investigations.

2020 List of PRTR chemical substances

<Integrated circuit/semiconductor>

POTWs ;publically (publicly) owned treatment works

supplier 1

substances specified by Japanese PRTR		Releases (kg/year)				Transfers (kg/year)	
CAS No.	Name	Air Emission	Water Bodies	Land	On-site Landfills	POTWs	Waste
-	Antimony and its compounds	0	0	0	0	0	4,000
7705-08-0	Ferric chloride	0	0	0	0	0	0
-	Silver and its water-soluble compounds	0	0	0	0	0	0
127-19-5	N,N-dimethylacetamide	0	0	0	0	0	890
11070-44-3	tetrahydromethylphthalic anhydride	0	0	0	0	0	0
95-63-6	1,2,4-trimethylbenzene	27	0	0	0	0	1,000
7439-92-1	Lead	0	0	0	0	0	770
7440-02-0	Nickel	0	0	0	0	0	0
-	Hydrogen fluoride and its water-soluble salts	70	0	0	0	0	0

supplier 2

substances specified by Japanese PRTR		Releases (kg/year)				Transfers (kg/year)	
CAS No.	Name	Air Emission	Water Bodies	Land	On-site Landfills	POTWs	Waste
1330-20-7	Xylene	43	0	0	0	0	1,000
108-95-2	Phenol	55	0	0	0	0	1,300
-	Hydrogen fluoride and its water-soluble salts	200	0	0	0	1,000	0
1321-94-4	Methylnaphthalene	56	0	0	0	0	1,300

supplier 3

substances specified by Japanese PRTR		Releases (kg/year)				Transfers (kg/year)	
CAS No.	Name	Air Emission	Water Bodies	Land	On-site Landfills	POTWs	Waste
-	Hydrogen fluoride and its water-soluble salts	34	0	0	0	1,000	2

<Unpopulated printed circuit board >
supplier 1

substances specified by Japanese PRTR		Releases (kg/year)				Transfers (kg/year)	
CAS No.	Name	Air Emission	Water Bodies	Land	On-site Landfills	POTWs	Waste
34590-94-8	Dipropylene glycol monomethyl ether	46,178	9,236	0	0	36,943	0
88917-22-0	Methyl-2-[2-methoxy(methyl)ethoxy]ethyl acetate	46,178	9,236	0	0	36,943	0
182697-62-7	[Polymer of 2-(chloromethyl)oxirane / cresol / formaldehyde] cyclohex-4-en-1,2-dicarboxylate acrylate	16,162	16,162	0	0	290,924	0
64742-94-5	Solvent naphtha (petroleum), heavy aromatic	1,847	1,847	0	0	33,248	0
119313-12-1	2-Benzyl-2-(N,N-dimethylamino)-1-(4-morpholinophenyl)butan-1-one	2,309	2,309	0	0	41,561	0
75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	23,089	2,309	0	0	20,780	0
7727-43-7	Barium sulfate	138,535	13,854	0	0	124,682	0
91-20-3	Naphthalene	4,618	462	0	0	4,156	0
107-83-5	Pentane, 2-methyl-	12	6	0	0	106	0
96-14-0	3-Methylpentane	9	5	0	0	80	0
110-54-3	Hexane	12	6	0	0	99	0
589-34-4	Hexane, 3-methyl-	37	18	0	0	311	0
591-76-4	2-methylhexane	32	16	0	0	273	0
142-82-5	Heptane	36	18	0	0	305	0
7440-02-0	Nickel	0	0	0	0	0	0
7440-22-4	Silver	0	0	0	0	0	0
7440-31-5	Tin	0	0	0	0	59	0
7697-37-2	Nitric acid	3,545	11,817	0	0	102,804	0
10257-54-2	Copper(II) sulfate monohydrate	67	223	0	0	1,942	0
7664-93-9	Sulfuric acid	293,869	7,836,494	0	0	1,665,255	0
98-67-9	4-hydroxybenzenesulphonic acid	29,387	783,649	0	0	166,526	0
7440-50-8	Copper	0	0	0	0	3,956,771	0
460-19-5	Oxalonnitrile	0	0	0	0	0	0
1310-73-2	Sodium hydroxide	0	0	0	0	0	0
7440-43-9	Cadmium	0	0	0	0	404	0

supplier 2

substances specified by Japanese PRTR		Releases (kg/year)				Transfers (kg/year)	
CAS No.	Name	Air Emission	Water Bodies	Land	On-site Landfills	POTWs	Waste
-	sulfuric acid mist	1,010	0	0	0	0	0
-	nitrogen oxide	2,870	0	0	0	0	0
8013-13-6	Formaldehyde	45	0	0	0	0	0
7664-41-7	Ammonia	37	0	0	0	0	0
109103-97-1	hydrogen chloride	738	0	0	0	0	0
74-90-8	hydrogen cyanide	0	0	0	0	0	0
-	non-methane total hydrocarbon	4,196	0	0	0	0	0
-	granular material	130	0	0	0	0	0
7440-31-5	Tin and its compounds	0	0	0	0	0	0
-	COD	0	19,299	0	0	0	0
-	ammoniacal nitrogen	0	355	0	0	0	0
7723-14-0	total phosphorus	0	44	0	0	0	0
7727-37-9	total nitrogen	0	3,929	0	0	0	0
-	suspension	0	6,876	0	0	0	0
7440-50-8	Copper	0	58	0	0	0	0
7440-02-0	nickel	0	11	0	0	0	0
-	cyanide	0	1	0	0	0	0
-	petroleum	0	193	0	0	0	0
8013-13-6	Formaldehyde	0	57	0	0	0	0
-	total tin	0	29	0	0	0	0
-	total manganese	0	7	0	0	0	0
7440-02-0	Nickel-containing sludge (nickel)	0	0	0	0	86,900	0
7440-50-8	Copper-containing sludge (copper)	0	0	0	0	5,619,280	0
-	Negative film (photosensitive material)	0	0	0	0	0	13,671
-	Waste epoxy resin base material (organic resin)	0	0	0	0	0	80,690
7440-02-0	Nickel waste liquid (nickel)	0	0	0	0	0	145,360
-	Gold waste (cyanide)	0	0	0	0	0	1,771
7440-50-8	Copper Waste Liquid (Copper)	0	0	0	0	0	6,457,874
7440-50-8	Copper Sulfate	0	0	0	0	0	96,626
-	Filter element, filter bag (lauric acid)	0	0	0	0	0	42,889
-	Gold Resin (Organic Resin)	0	0	0	0	0	315
-	Waste chemical empty barrel (Chemical)	0	0	0	0	0	73,507
-	Waste gloves and dustcloth (Chemical)	0	0	0	0	0	1,238
-	Waste laboratory equipment (Chemical)	0	0	0	0	0	1,074
-	Waste Flux (Oil)	0	0	0	0	0	4,461
-	Forming frame and waste substrate (organic resin)	0	0	0	0	0	839,142
-	waste ore oil	0	0	0	0	0	1,184
-	Waste ink (paint)	0	0	0	0	0	54,587
-	Waste ink cartridges (paint)	0	0	0	0	0	48,640
-	Tin removal effluent (lauric acid)	0	0	0	0	0	699,750
-	Copper nitrate wastewater (lauric acid)	0	0	0	0	0	99,190
-	Waste activated carbon (organic matter)	0	0	0	0	0	5,361
-	Dust (Organic Resin)	0	0	0	0	0	399,419

supplier 3

substances specified by Japanese PRTR		Releases (kg/year)				Transfers (kg/year)	
CAS No.	Name	Air Emission	Water Bodies	Land	On-site Landfills	POTWs	Waste
-	sulfuric acid mist	1,009	0	0	0	0	0
-	nitrogen oxide	370	0	0	0	0	0
8013-13-6	Formaldehyde	22	0	0	0	0	0
7664-41-7	Ammonia	50	0	0	0	0	0
109103-97-1	hydrogen chloride	491	0	0	0	0	0
74-90-8	hydrogen cyanide	2	0	0	0	0	0
-	non-methane total hydrocarbon	57	0	0	0	0	0
-	granular material	171	0	0	0	0	0
-	COD	0	7,548	0	0	0	0
-	ammoniacal nitrogen	0	159	0	0	0	0
7723-14-0	total phosphorus	0	19	0	0	0	0
7727-37-9	total nitrogen	0	2,207	0	0	0	0
-	suspension	0	1,456	0	0	0	0
7440-50-8	Copper	0	7	0	0	0	0
7440-02-0	nickel	0	2	0	0	0	0
-	cyanide	0	0	0	0	0	0
8013-13-6	Formaldehyde	0	128	0	0	0	0
7440-02-0	Nickel-containing sludge (nickel)	0	0	0	0	8,560	0
7440-50-8	Copper-containing sludge (copper)	0	0	0	0	1,602,013	0
-	Negative film (photosensitive material)	0	0	0	0	0	6,270
-	Waste epoxy resin base material	0	0	0	0	0	43,870
7440-02-0	Nickel waste liquid (nickel)	0	0	0	0	0	75,870
7440-50-8	Copper Waste Liquid (Copper)	0	0	0	0	0	3,169,000
-	Dried waste (organic resin)	0	0	0	0	0	42,430
-	Filter element, filter bag (lauric acid)	0	0	0	0	0	4,929
-	Gold Resin (Organic Resin)	0	0	0	0	0	53
-	Waste Gloves, Dustcloth, Chemical	0	0	0	0	0	945
-	Waste substrate (organic resin)	0	0	0	0	0	304,727
-	waste ore oil	0	0	0	0	0	1,250
-	Waste ink and ink cartridges (paint)	0	0	0	0	0	17,889
-	Tin removal effluent (lauric acid)	0	0	0	0	0	411,690
-	Copper nitrate wastewater (lauric acid)	0	0	0	0	0	0
-	Waste activated carbon (organic)	0	0	0	0	0	14,380
-	Dust (Organic Resin)	0	0	0	0	0	171,633

<Motor>**supplier 1**

substances specified by Japanese PRTR		Releases (kg/year)				Transfers (kg/year)	
CAS No.	Name	Air Emission	Water Bodies	Land	On-site Landfills	POTWs	Waste
-	Fluorides (as total F)	332	0	0	0	0	0
100-41-4	Ethylbenzene	1,922	0	0	0	0	0
108-95-2	Phenols	168	0	0	0	0	0
108-88-3	Toluene	4	0	0	0	0	0
1330-20-7	Xylene	1,560	0	0	0	0	0

supplier 2

substances specified by Japanese PRTR		Releases (kg/year)				Transfers (kg/year)	
CAS No.	Name	Air Emission	Water Bodies	Land	On-site Landfills	POTWs	Waste
100-42-5	styrene	60	0	0	0	0	0
108-88-3	toluene	155	0	0	0	0	0
1330-20-7	xylene	3,046	0	0	0	0	0
109-86-4	ethylene glycol monomethyl ether	986	0	0	0	0	0

supplier 3

substances specified by Japanese PRTR		Releases (kg/year)				Transfers (kg/year)	
CAS No.	Name	Air Emission	Water Bodies	Land	On-site Landfills	POTWs	Waste
115-10-6	Dimethyl ether	0	0	0	0	0	9,750
108-88-3	Toluene						
123-92-2	Isoamyl acetate						
67-63-0	Isopropyl alcohol						
1330-20-7	Xylene						
100-41-4	Ethylbenzene						
1185-55-3	Methyltrimethoxysilane	0	0	0	0	0	553
100-41-4	Ethyl Benzene						
123-86-4	Butyl Acetate						
1330-20-7	Xyrene						
106-97-8	Butane						
115-10-6	Dimethyl ether	0	0	0	0	0	46
123-86-4	Butyl acetate						
7498-6	Propane						
78-93-3	Methyl Ethyl Ketone						
-	Aminosilane	0	0	0	0	0	130
-	Epoxy silane						
1333-86-4	Carbon Black						
67-63-0	Isopropanol	0	0	0	0	0	1,200
60164-51-4	Perfluoroalkylether						
21645-51-2	Aluminum hydroxide	0	0	0	0	0	452
2045294-94-6	Trimethylated and dimethylated silic						
27858-32-8	Diisopropoxy di(ethoxyacetoacetyl) titanate						
13463-67-7	Titanium dioxide						
1333-86-4	Carbon black						
-	Crystalline silica	0	0	0	0	0	7
-	Crystalline free silica						
-	Alkenoxysilane						
13463-67-7	Titanium oxide						
-	Organosilane						
-	Alkoxysilane						
1333-86-4	Carbon black						
111-90-0	Diethylene glycol monoethyl ether	0	0	0	0	0	520
141-43-5	2-amino ethanol						
-	Surfactant						

-	2- Methylpentane						
-	3-Methylpentane						
-	Butane						
-	Propane						
-	Acetone	0	0	0	0	0	375
-	Ethyl alcohol						
-	Hexane						
-	2,3-Dimethylbutane						
-	Methyl cyclopentane						
-	Base Oil						
-	Thickener	0	0	0	0	0	4
-	Additive barium compound						
25068-38-6	546						
9003-36-5	Bisphenol F Epoxy Resin						
12070-12-1	Tungsten Carbide	0	0	0	0	0	310
1309-37-1	Ferric Oxide						
-	Others						
-	Poly(amidoamine)						
12070-12-1	Metal Carbide	0	0	0	0	0	246
1309-37-1	Iron Oxide						
-	Others						
7085-85-0	Ethyl 2-cyanoacrylate						
85-44-9	Phthalic anhydride	0	0	0	0	0	63
123-31-9	Hydroqui0						
25068-38-6	Bisphenol A Type Liquid Epoxy Resin						
84-74-2	Di-n-butyl phthalate	0	0	0	0	0	12
-	Silica						
-	Polyamideamine	0	0	0	0	0	5
-	Silica						
25068-38-6	Bisphenol A Type Liquid Epoxy Resin						
9003-36-5	Bisphenol F Type Liquid Epoxy Resin	0	0	0	0	0	168
-	Silica						
2425-79-8	1,4-Butanediol diglycidyl ether						
-	Polyamideamine						
80-05-7	Bisphenol A						
111-40-0	Diethylenetriamine	0	0	0	0	0	148
112-24-3	Triethylene tatramine						
109-55-7	Dimethylaminopropylamine						
-	2-Hydroxyethyl methacrylate						
-	Ethylene chlorohydrin						
-	Cumene	0	0	0	0	0	3
-	Silica						
-	Meth)acrylic ester						
-	Ethyl alcohol						
-	n-Propanol	0	0	0	0	0	3
-	Methyl alcohol						
-	Hardening accelerator						
2495-37-6	Aromatic methacrylate ester						
79-41-4	Methacrylic acid						
3006-93-7	Maleimide resin	0	0	0	0	0	18
614-45-9	Tert-butyl perbenzoate						
112945-52-5	Silica, amorphous, fumed, crystal-free						
1189-08-8	1,3-Butylene glycol dimethacrylate						
142-82-5	n-Heptane						
34562-31-7	Diethyl-phenyl-propyl-dihydropyridine	0	0	0	0	0	48
67-63-0	Propan-2-ol						
645-62-5	2-Ethylhex-2-enal						
25068-38-6	bisphenol A Epichlorohydrin polymer	0	0	0	0	0	30
9003-36-5	Bisphenol F Epichlorohydrin polymer						
-	Polyamideamine	0	0	0	0	0	22
112-57-2	Tetraethylenepentamiine						
-	Interchangeable low viscosity base oil	0	0	0	0	0	15

25037-66-5	Unsaturated polyester resin							
100-42-5	Styrene	0	0	0	0	0	0	1,128
-	Organic peroxide	0	0	0	0	0	0	6
67-64-1	Acetone							
99-97-8	N,N-Dimethyl-p-toluidine	0	0	0	0	0	0	76
-	Polyamide resin	0	0	0	0	0	0	361
24980-58-3	Silyl-terminated Resin							
-	Organic tin Compound							
78-42-2	Tris(2-Ethylhexyl)phosphate	0	0	0	0	0	0	590
1333-86-4	Carbon Black							
67-56-1	Methanol							
25068-38-6	Bisphenol A Type Liquid Epoxy Resin							
1309-64-4	Antimony Trioxide	0	0	0	0	0	0	9,840
-	Silica							
9003-36-5	Formaldehyde, polymer with (chloromethyl)oxirane and phenol	0	0	0	0	0	0	25,920
1333-86-4	Carbon black							
6864-37-5	4,4'-methylenebis (2-methylcyclohexaneamine)	0	0	0	0	0	0	5,712
14808-60-7	Cystalline Silica							
52301-18-5	Alkenoxysilane							
69709-01-9	Organosilane	0	0	0	0	0	0	5
1760-24-3	Alkoxysilane							
13463-67-7	Titanium oxide							
104-76-7	2-ethylhexyl alcohol							
25068-38-6	Bisphenol A Epoxy resin	0	0	0	0	0	0	240
11070-4-3	Tetrahydromethylphtalic anhydride	0	0	0	0	0	0	192
-	Promoter							
-	Ethyl 2-cyanoacrylate							
-	Methyl methacrylate	0	0	0	0	0	0	66
-	Hydroqui0							
-	Thickener, Additive							
7085-85-0	Ethyl 2-cyanoacrylate							
85-44-9	Phthalic anhydride	0	0	0	0	0	0	282
123-31-9	Hydroqui0							
-	Ester	0	0	0	0	0	0	6,264
34590-94-8	Dipropylene glycol monomethyl ether							
7085-85-0	Ethyl 2-cyanoacrylate							
-	Ethylene Copolymer Rubber							
67762-90-7	Treated fumed silica	0	0	0	0	0	0	420
1333-86-4	Carbon black							
123-31-9	Hydroqui0							
46729-07-1	Methacrylate Resin							
1189-08-8	1,3-Butylene glycol dimethacrylate							
27813-02-1	Hydroxyalkyl methacrylate							
39382-25-7	Bisphenol A fumarate resin							
-	Polyurethane methacrylate resin	0	0	0	0	0	0	18
-	Polyurethane methacrylate resin							
79-10-7	Acrylic acid							
9036-19-5	Octylphenol ethoxylate, 9-10EO							
114-83-0	1-Acetyl-2-phenylhydrazine							
98-82-8	Cumene							

2021 List of PRTR chemical substances

<Integrated circuit/semiconductor>

POTWs ;publically (publicly) owned treatment works

supplier 1

substances specified by Japanese PRTR		Releases (kg/year)				Transfers (kg/year)	
CAS No.	Name	Air Emission	Water Bodies	Land	On-site Landfills	POTWs	Waste
-	Antimony and its compounds	0	0	0	0	0	3,900
7705-08-0	Ferric chloride	0	0	0	0	0	0
-	Silver and its water-soluble compounds	0	0	0	0	0	0
127-19-5	N,N-dimethylacetamide	0	0	0	0	0	6,300
11070-44-3	tetrahydromethylphthalic anhydride	0	0	0	0	0	0
95-63-6	1,2,4-trimethylbenzene	46	0	0	0	0	1,600
7439-92-1	Lead	0	0	0	0	0	710
7440-02-0	Nickel	0	0	0	0	0	0
-	Hydrogen fluoride and its water-soluble salts	83	0	0	0	0	0

supplier 2

substances specified by Japanese PRTR		Releases (kg/year)				Transfers (kg/year)	
CAS No.	Name	Air Emission	Water Bodies	Land	On-site Landfills	POTWs	Waste
1330-20-7	Xylene	41	0	0	0	0	979
127-19-5	N,N-Dimethylacetamide	50	0	0	0	0	1,205
108-95-2	Phenol	52	0	0	0	0	1,238
-	Hydrogen fluoride and its water-soluble salts	214	0	0	0	1,069	0
1321-94-4	Methylnaphthalene	50	0	0	0	0	1,205

supplier 3

substances specified by Japanese PRTR		Releases (kg/year)				Transfers (kg/year)	
CAS No.	Name	Air Emission	Water Bodies	Land	On-site Landfills	POTWs	Waste
-	Hydrogen fluoride and its water-soluble salts	39	0	0	0	1,000	2

<Unpopulated printed circuit board>

supplier 1

substances specified by Japanese PRTR		Releases (kg/year)				Transfers (kg/year)	
CAS No.	Name	Air Emission	Water Bodies	Land	On-site Landfills	POTWs	Waste
34590-94-8	Dipropylene glycol monomethyl ether	82,614	16,523	0	0	66,091	1,100
88917-22-0	Methyl-2-[2-methoxy(methyl)ethoxy]ethyl acetate	82,614	16,523	0	0	66,091	0
182697-62-7	[Polymer of 2-(chloromethyl)oxirane / cresol / formaldehyde] cyclohex-4-en-1,2-dicarboxylate acrylate	28,915	28,915	0	0	520,470	7,300
64742-94-5	Solvent naphtha (petroleum), heavy aromatic	3,305	3,305	0	0	59,482	240
119313-12-1	2-Benzyl-2-(N,N-dimethylamino)-1-(4-morpholinophenyl)butan-1-one	4,131	4,131	0	0	74,353	150
75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	41,307	4,131	0	0	37,176	0
7727-43-7	Barium sulfate	247,843	24,784	0	0	223,059	0
91-20-3	Naphthalene	8,261	826	0	0	7,435	0
107-83-5	Pentane, 2-methyl-	18	9	0	0	153	0
96-14-0	3-Methylpentane	13	7	0	0	115	0
110-54-3	Hexane	17	8	0	0	142	0
589-34-4	Hexane, 3-methyl-	53	26	0	0	448	0
591-76-4	2-methylhexane	46	23	0	0	393	0
142-82-5	Heptane	52	26	0	0	438	0
7440-02-0	Nickel	0	0	0	0	0	0
7440-22-4	Silver	0	0	0	0	0	0
7440-31-5	Tin	0	0	0	0	78	0
7697-37-2	Nitric acid	4,694	15,646	0	0	136,120	0
10257-54-2	Copper(II) sulfate monohydrate	973	3,244	0	0	28,223	0
7664-93-9	Sulfuric acid	523,799	#####	0	0	2,968,193	0
98-67-9	4-hydroxybenzenesulphonic acid	49,639	1,323,697	0	0	281,286	0
7440-50-8	Copper	0	0	0	0	5,630,693	0
460-19-5	Oxalonitrile	0	0	0	0	0	0
1310-73-2	Sodium hydroxide	351	9,352	0	0	1,987	0
7440-43-9	Cadmium	0	0	0	0	575	0

supplier 2

substances specified by Japanese PRTR		Releases (kg/year)				Transfers (kg/year)	
CAS No.	Name	Air Emission	Water Bodies	Land	On-site Landfills	POTWs	Waste
-	sulfuric acid mist	1,286	0	0	0	0	0
-	nitrogen oxide	2,646	0	0	0	0	0
8013-13-6	Formaldehyde	43	0	0	0	0	0
7664-41-7	Ammonia	69	0	0	0	0	0
109103-97-1	hydrogen chloride	713	0	0	0	0	0
74-90-8	hydrogen cyanide	0	0	0	0	0	0
-	non-methane total hydrocarbon	946	0	0	0	0	0
-	granular material	408	0	0	0	0	0
7440-31-5	Tin and its compounds	0	0	0	0	0	0
-	COD	0	17,537	0	0	0	0
-	ammoniacal nitrogen	0	155	0	0	0	0
7723-14-0	total phosphorus	0	55	0	0	0	0
7727-37-9	total nitrogen	0	4,860	0	0	0	0
-	suspension	0	8,258	0	0	0	0
7440-50-8	Copper	0	34	0	0	0	0
7440-02-0	nickel	0	24	0	0	0	0
-	cyanide	0	1	0	0	0	0
-	petroleum	0	46	0	0	0	0
8013-13-6	Formaldehyde	0	45	0	0	0	0
-	total tin	0	28	0	0	0	0
-	total manganese	0	9	0	0	0	0
7440-02-0	Nickel-containing sludge (nickel)	0	0	0	0	65,348	0
7440-50-8	Copper-containing sludge (copper)	0	0	0	0	6,022,486	0
-	Negative film (photosensitive material)	0	0	0	0	0	11,406
-	Waste epoxy resin base material (organic resin)	0	0	0	0	0	71,843
7440-02-0	Nickel waste liquid (nickel)	0	0	0	0	0	147,540
-	Gold waste (cyanide)	0	0	0	0	0	1,720
7440-50-8	Copper Waste Liquid (Copper)	0	0	0	0	0	5,997,072
7440-50-8	Copper Sulfate	0	0	0	0	0	81,829
-	Filter element, filter bag (lauric acid)	0	0	0	0	0	53,964
-	Gold Resin (Organic Resin)	0	0	0	0	0	332
-	Waste chemical empty barrel	0	0	0	0	0	82,874
-	Waste gloves and dustcloth (Chemical)	0	0	0	0	0	99
-	Waste laboratory equipment (Chemical)	0	0	0	0	0	1,101
-	Waste Flux (Oil)	0	0	0	0	0	8,271
-	Forming frame and waste substrate (organic resin)	0	0	0	0	0	869,889
-	waste ore oil	0	0	0	0	0	3,780
-	Waste ink (paint)	0	0	0	0	0	81,924
-	Waste ink cartridges (paint)	0	0	0	0	0	53,229
-	Tin removal effluent (lauric acid)	0	0	0	0	0	641,240
-	Copper nitrate wastewater (lauric acid)	0	0	0	0	0	219,520
-	Waste activated carbon (organic matter)	0	0	0	0	0	2,214
-	Dust (Organic Resin)	0	0	0	0	0	396,911

supplier 3

substances specified by Japanese PRTR		Releases (kg/year)				Transfers (kg/year)	
CAS No.	Name	Air Emission	Water Bodies	Land	On-site Landfills	POTWs	Waste
-	sulfuric acid mist	974	0	0	0	0	0
-	nitrogen oxide	477	0	0	0	0	0
8013-13-6	Formaldehyde	0	0	0	0	0	0
7664-41-7	Ammonia	54	0	0	0	0	0
109103-97-1	hydrogen chloride	610	0	0	0	0	0
74-90-8	hydrogen cyanide	0	0	0	0	0	0
-	non-methane total hydrocarbon	3,481	0	0	0	0	0
-	granular material	145	0	0	0	0	0
-	COD	0	5,910	0	0	0	0
-	ammoniacal nitrogen	0	43	0	0	0	0
7723-14-0	total phosphorus	0	25	0	0	0	0
7727-37-9	total nitrogen	0	2,882	0	0	0	0
-	suspension	0	1,947	0	0	0	0
7440-50-8	Copper	0	11	0	0	0	0
7440-02-0	nickel	0	16	0	0	0	0
-	cyanide	0	0	0	0	0	0
8013-13-6	Formaldehyde	0	27	0	0	0	0
7440-02-0	Nickel-containing sludge (nickel)	0	0	0	0	8,228	0
7440-50-8	Copper-containing sludge (copper)	0	0	0	0	2,017,543	0
-	Negative film (photosensitive material)	0	0	0	0	0	5,380
-	Waste epoxy resin base material (organic resin)	0	0	0	0	0	32,714
7440-02-0	Nickel waste liquid (nickel)	0	0	0	0	0	168,890
7440-50-8	Copper Waste Liquid (Copper)	0	0	0	0	0	3,928,820
-	Dried waste (organic resin)	0	0	0	0	0	28,767
-	Filter element, filter bag (lauric acid)	0	0	0	0	0	3,248
-	Gold Resin (Organic Resin)	0	0	0	0	0	63
-	Waste Gloves, Dustcloth, Chemical Flask (Chemical)	0	0	0	0	0	347
-	Waste substrate (organic resin)	0	0	0	0	0	198,738
-	waste ore oil	0	0	0	0	0	1,440
-	Waste ink and ink cartridges (paint)	0	0	0	0	0	11,317
-	Tin removal effluent (lauric acid)	0	0	0	0	0	502,470
-	Copper nitrate wastewater (lauric acid)	0	0	0	0	0	4,780
-	Waste activated carbon (organic matter)	0	0	0	0	0	20,123
-	Dust (Organic Resin)	0	0	0	0	0	92,863

<Motor>**supplier 1**

substances specified by Japanese PRTR		Releases (kg/year)				Transfers (kg/year)	
CAS No.	Name	Air Emission	Water Bodies	Land	On-site Landfills	POTWs	Waste
-	Fluorides (as total F)	457	0	0	0	0	0
100-41-4	Ethylbenzene	136	0	0	0	0	0
108-95-2	Phenols	204	0	0	0	0	0
1330-20-7	Xylene	106	0	0	0	0	0

supplier 2

substances specified by Japanese PRTR		Releases (kg/year)				Transfers (kg/year)	
CAS No.	Name	Air Emission	Water Bodies	Land	On-site Landfills	POTWs	Waste
100-42-5	styrene	140	0	0	0	0	0
108-88-3	toluene	245	0	0	0	0	0
1330-20-7	xylene	2,707	0	0	0	0	0
109-86-4	ethylene glycol monomethyl ether	1,030	0	0	0	0	0

supplier 3

substances specified by Japanese PRTR		Releases (kg/year)				Transfers (kg/year)	
CAS No.	Name	Air Emission	Water Bodies	Land	On-site Landfills	POTWs	Waste
115-10-6	Dimethyl ether	0	0	0	0	0	9,200
108-88-3	Toluene						
123-92-2	Isoamyl acetate						
67-63-0	Isopropyl alcohol						
1330-20-7	Xylene						
100-41-4	Ethylbenzene						
1185-55-3	Methyltrimethoxysilane	0	0	0	0	0	580
100-41-4	Ethyl Benzene						
123-86-4	Butyl Acetate						
1330-20-7	Xyrene						
106-97-8	Butane						
115-10-6	Dimethyl ether						
123-86-4	Butyl acetate	0	0	0	0	0	54
7498-6	Propane						
78-93-3	Methyl Ethyl Ketone						
-	Aminosilane						
-	Epoxy silane						
1333-86-4	Carbon Black						
67-63-0	Isopropanol	0	0	0	0	0	1,250
60164-51-4	Perfluoroalkylether						
21645-51-2	Aluminum hydroxide						
2045294-94-6	Trimethylated and dimethylated silic						
27858-32-8	Diisopropoxy di(ethoxyacetoacetyl) titanate						
13463-67-7	Titanium dioxide						
1333-86-4	Carbon black	0	0	0	0	0	15
-	Crystalline silica						
-	Crystalline free silica						
-	Alkenoxysilane						
13463-67-7	Titanium oxide						
-	Organosilane						
-	Alkoxysilane						
1333-86-4	Carbon black	0	0	0	0	0	543
111-90-0	Diethylene glycol monoethyl ether						
141-43-5	2-amino ethanol						
-	Surfactant						

-	2- Methylpentane						
-	3-Methylpentane						
-	Butane						
-	Propane						
-	Acetone	0	0	0	0	0	359
-	Ethyl alcohol						
-	Hexane						
-	2,3-Dimethylbutane						
-	Methyl cyclopentane						
-	Base Oil						
-	Thickener	0	0	0	0	0	6
-	Additive barium compound						
25068-38-6	546						
9003-36-5	Bisphenol F Epoxy Resin						
12070-12-1	Tungsten Carbide	0	0	0	0	0	297
1309-37-1	Ferric Oxide						
-	Others						
-	Poly(amidoamine)						
12070-12-1	Metal Carbide	0	0	0	0	0	275
1309-37-1	Iron Oxide						
-	Others						
7085-85-0	Ethyl 2-cyanoacrylate						
85-44-9	Phthalic anhydride	0	0	0	0	0	65
123-31-9	Hydroqui0						
25068-38-6	Bisphenol A Type Liquid Epoxy Resin						
84-74-2	Di-n-butyl phthalate	0	0	0	0	0	19
-	Silica						
-	Polyamideamine	0	0	0	0	0	5
-	Silica						
25068-38-6	Bisphenol A Type Liquid Epoxy Resin						
9003-36-5	Bisphenol F Type Liquid Epoxy Resin	0	0	0	0	0	185
-	Silica						
2425-79-8	1,4-Butanediol diglycidyl ether						
-	Polyamideamine						
80-05-7	Bisphenol A						
111-40-0	Diethylenetriamine	0	0	0	0	0	172
112-24-3	Triethylene tatramine						
109-55-7	Dimethylaminopropylamine						
-	2-Hydroxyethyl methacrylate						
-	Ethylene chlorohydrin						
-	Cumene	0	0	0	0	0	4
-	Silica						
-	Meth)acrylic ester						
-	Ethyl alcohol						
-	n-Propanol	0	0	0	0	0	4
-	Methyl alcohol						
-	Hardening accelerator						
2495-37-6	Aromatic methacrylate ester						
79-41-4	Methacrylic acid						
3006-93-7	Maleimide resin	0	0	0	0	0	22
614-45-9	Tert-butyl perbenzoate						
112945-52-5	Silica, amorphous, fumed, crystal-free						
1189-08-8	1,3-Butylene glycol dimethacrylate						
142-82-5	n-Heptane						
34562-31-7	Diethyl-phenyl-propyl-dihydropyridine	0	0	0	0	0	55
67-63-0	Propan-2-ol						
645-62-5	2-Ethylhex-2-enal						
25068-38-6	bisphenol A Epichlorohydrin polymer	0	0	0	0	0	33
9003-36-5	Bisphenol F Epichlorohydrin polymer						
-	Polyamideamine	0	0	0	0	0	20
112-57-2	Tetraethylenepentamiine						
-	Interchangeable low viscosity base oil	0	0	0	0	0	18

25037-66-5	Unsaturated polyester resin							
100-42-5	Styrene	0	0	0	0	0	0	1,172
-	Organic peroxide	0	0	0	0	0	0	6
67-64-1	Acetone							
99-97-8	N,N-Dimethyl-p-toluidine	0	0	0	0	0	0	78
-	Polyamide resin	0	0	0	0	0	0	350
24980-58-3	Silyl-terminated Resin							
-	Organic tin Compound							
78-42-2	Tris(2-Ethylhexyl)phosphate	0	0	0	0	0	0	600
1333-86-4	Carbon Black							
67-56-1	Methanol							
25068-38-6	Bisphenol A Type Liquid Epoxy Resin							
1309-64-4	Antimony Trioxide	0	0	0	0	0	0	9,925
-	Silica							
9003-36-5	Formaldehyde, polymer with (chloromethyl)oxirane and phenol	0	0	0	0	0	0	26,130
1333-86-4	Carbon black							
6864-37-5	4,4'-methylenebis (2-methylcyclohexaneamine)	0	0	0	0	0	0	5,813
14808-60-7	Cystalline Silica							
52301-18-5	Alkenoxysilane							
69709-01-9	Organosilane	0	0	0	0	0	0	5
1760-24-3	Alkoxysilane							
13463-67-7	Titanium oxide							
104-76-7	2-ethylhexyl alcohol							
25068-38-6	Bisphenol A Epoxy resin	0	0	0	0	0	0	240
11070-4-3	Tetrahydromethylphtalic anhydride	0	0	0	0	0	0	198
-	Promoter							
-	Ethyl 2-cyanoacrylate							
-	Methyl methacrylate	0	0	0	0	0	0	66
-	Hydroqui0							
-	Thickener, Additive							
7085-85-0	Ethyl 2-cyanoacrylate							
85-44-9	Phthalic anhydride	0	0	0	0	0	0	396
123-31-9	Hydroqui0							
-	Ester	0	0	0	0	0	0	6,316
34590-94-8	Dipropylene glycol monomethyl ether							
7085-85-0	Ethyl 2-cyanoacrylate							
-	Ethylene Copolymer Rubber							
67762-90-7	Treated fumed silica	0	0	0	0	0	0	445
1333-86-4	Carbon black							
123-31-9	Hydroqui0							
46729-07-1	Methacrylate Resin							
1189-08-8	1,3-Butylene glycol dimethacrylate							
27813-02-1	Hydroxyalkyl methacrylate							
39382-25-7	Bisphenol A fumarate resin							
-	Polyurethane methacrylate resin	0	0	0	0	0	0	16
-	Polyurethane methacrylate resin							
79-10-7	Acrylic acid							
9036-19-5	Octylphenol ethoxylate, 9-10EO							
114-83-0	1-Acetyl-2-phenylhydrazine							
98-82-8	Cumene							