

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/policy/chemical_management/law/prtr/index.html

(in Japanese)

and/or from supplier investigations.

2022 List of PRTR chemical substances

<Integrated circuit/semiconductor>

POTWs ;publically (publicly) owned treatment works

supplier 1

substances		Releases (kg/year)				Transfers (kg/year)	
CAS No.	Name	Air Emission	Water Bodies	Land	On-site Landfills	POTWs	Waste
141-43-5	2-Aminoethanol	130	0	0	0	0	8,800
-	Antimony and its compounds	0	0	0	0	0	4,250
100-41-4	Ethylbenzene	17,870	0	0	0	0	21,100
1330-20-7	Xylene	27,504	0	0	0	0	21,990
-	Chromium and chromium(III) compounds	0	0	0	0	0	1,810
-	Cobalt and its compounds	0	0	0	0	0	5,300
127-19-5	N,N-Dimethylacetamide	0	0	0	0	0	6,700
100-42-5	Styrene	14,100	0	0	0	0	2,000
-	Water-soluble copper salts (except for complex salts)	0	0	0	0	20	12,000
95-63-6	1,2,4-Trimethylbenzene	3,159	0	0	0	0	4,200
108-67-8	1,3,5-Trimethylbenzene	500	0	0	0	0	500
108-88-3	Toluene	28,477	0	0	0	0	37,495
7439-92-1	Lead	0	0	0	0	0	850
-	Lead and its compounds	0	0	0	0	0	63
7440-02-0	Nickel	0	0	0	0	0	2,270
-	Nickel compounds	0	0	0	0	0	4,206
2426-08-6	Butyl-2,3-epoxypropyl ether	71	0	0	0	0	1,100
-	Hydrogen fluoride and its water-soluble salts	681	1,400	0	0	0	13,049
106-94-5	1-Bromopropane	5,000	0	0	0	0	9,600
71-43-2	Benzene	23	0	0	0	0	0
-	Boron compounds	0	0	0	0	0	42
50-00-0	Formaldehyde	0	0	0	0	360	290
-	Manganese and its compounds	0	0	0	0	0	3,112
85-44-9	Phthalic anhydride	0	0	0	0	0	13
80-62-6	Methyl methacrylate	1,200	0	0	0	0	500
-	Molybdenum and its compounds	0	21	0	0	0	280
110-91-8	Morpholine	0	35	0	0	0	0

supplier 2

substances		Releases (kg/year)				Transfers (kg/year)	
CAS No.	Name	Air Emission	Water Bodies	Land	On-site Landfills	POTWs	Waste
1330-20-7	Xylene	50	0	0	0	0	1,200
127-19-5	N,N-Dimethylacetamide	73	0	0	0	0	1,800
108-95-2	Phenol	55	0	0	0	0	1,300
-	Hydrogen fluoride and its water-soluble salts	280	0	0	0	1,400	0
106-94-5	1-Bromopropane	1,200	0	0	0	0	180
90-12-0	Methylnaphthalene	10	0	0	0	0	0

supplier 3

substances		Releases (kg/year)				Transfers (kg/year)	
CAS No.	Name	Air Emission	Water Bodies	Land	On-site Landfills	POTWs	Waste
-	Linar alkylbenzenesulfonic acid and its salt (limited to those the alkyl group is C=10-14 and mixture thereof)	2	0	0	0	0	0
-	Antimony and its compounds	19	6	0	0	0	5,000
100-41-4	Ethylbenzene	0	0	0	0	67	720
1330-20-7	Xylene	1,200	0	0	0	90	7,500
100-97-0	1,3,5,7-Tetraazatricyclo[3.3.1.1(3,7)]decane (synonym: Hexamethylenetetramine)	2	2	0	0	0	540
127-18-4	Tetrachloroethylene	93	0	0	0	0	570
112-24-3	Triethylenetetramine	0	0	0	0	0	1,700
26471-62-5	Tolylene diisocyanate	0	0	0	0	0	970
108-88-3	Toluene	2,600	0	0	0	0	57
80-43-3	Bis(1-methyl-1-phenylethyl) peroxide	2	0	0	0	0	440
108-95-2	Phenol	9	0	0	0	0	2,300
-	Hydrogen fluoride and its water-soluble salts	37	0	0	0	1311	12,002
90-12-0	Methylnaphthalene	49	0	0	0	0	0
5124-30-1	Methylene-bis(4-cyclohexylisocyanate)	3	0	0	0	0	0
101-68-8	Methylenebis(4,1-phenylene) diisocyanate	0	0	0	0	0	1,600
-	Molybdenum and its compounds	5	0	0	0	0	1,400

<Unpopulated printed circuit board>
supplier 1

substances		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	86,745	17,349	0	0	69,396	0
88917-22-0	Methyl-2-[2-methoxy(methyl)ethoxy]ethyl acetate	86,745	17,349	0	0	69,396	0
182697-62-7	[Polymer of 2-(chloromethyl)oxirane / cresol / formaldehyde] cyclohex-4-en-1,2-dicarboxylate acrylate	30,361	30,361	0	0	546,493	0
64742-94-5	Solvent naphtha (petroleum), heavy aromatic	3,470	3,470	0	0	62,456	0
119313-12-1	2-Benzyl-2-(N,N-dimethylamino)-1-(4-morpholinophenyl)butan-1-one	4,337	4,337	0	0	78,070	0
75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	43,372	4,337	0	0	39,035	0
7727-43-7	Barium sulfate	260,235	26,023	0	0	234,211	0
91-20-3	Naphthalene	8,674	867	0	0	7,807	0
107-83-5	Pentane, 2-methyl-	19	9	0	0	160	0
96-14-0	3-Methylpentane	14	7	0	0	120	0
110-54-3	Hexane	18	9	0	0	150	0
589-34-4	Hexane, 3-methyl-	55	28	0	0	470	0
591-76-4	2-methylhexane	49	24	0	0	413	0
142-82-5	Heptane	54	27	0	0	460	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	82	0
7697-37-2	Nitric acid	4,928	16,428	0	0	142,926	0
10257-54-2	Copper(II) sulfate monohydrate	1,022	3,406	0	0	29,634	0
7664-93-9	Sulfuric acid	549,989	14,666,366	0	0	3,116,603	0
98-67-9	4-hydroxybenzenesulphonic acid	52,121	1,389,882	0	0	295,350	0
7440-50-8	Copper	0	0	0	0	5,912,228	0
460-19-5	Oxalonnitrile	0	0	0	0	0	0
1310-73-2	Sodium hydroxide	368	9,820	0	0	2,087	0
7440-43-9	Cadmium	0	0	0	0	575	0

supplier 2

substances		Releases (kg/year)				Transfers (kg/year)	
CAS No.	Name	Air Emission	Water Bodies	Land	On-site Landfills	POTWs	Waste
-	sulfuric acid mist	938	0	0	0	0	0
-	nitrogen oxide	2,680	0	0	0	0	0
8013-13-6	Formaldehyde	0	0	0	0	0	0
7664-41-7	Ammonia	126	0	0	0	0	0
109103-97-1	hydrogen chloride	1,354	0	0	0	0	0
74-90-8	hydrogen cyanide	0	0	0	0	0	0
-	non-methane total hydrocarbon	2,475	0	0	0	0	0
-	granular material	225	0	0	0	0	0
7440-31-5	Tin and its compounds	0	0	0	0	0	0
-	COD	0	11,464	0	0	0	0
-	ammoniacal nitrogen	0	234	0	0	0	0
7723-14-0	total phosphorus	0	30	0	0	0	0
7727-37-9	total nitrogen	0	3,078	0	0	0	0
-	suspension	0	4,453	0	0	0	0
7440-50-8	Copper	0	34	0	0	0	0
7440-02-0	nickel	0	8	0	0	0	0
-	cyanide	0	1	0	0	0	0
-	petroleum	0	3	0	0	0	0
8013-13-6	Formaldehyde	0	47	0	0	0	0
-	total tin	0	21	0	0	0	0
-	total manganese	0	8	0	0	0	0
7440-02-0	Nickel-containing sludge (nickel)	0	0	0	0	4,908	0
7440-50-8	Copper-containing sludge (copper)	0	0	0	0	914,791	0
-	Negative film (photosensitive material)	0	0	0	0	0	2,089
-	Waste epoxy resin base material (organic resin)	0	0	0	0	0	10,662
7440-02-0	Nickel waste liquid (nickel)	0	0	0	0	0	26,020
-	Gold waste (cyanide)	0	0	0	0	0	854
7440-50-8	Copper Waste Liquid (Copper)	0	0	0	0	0	668,730
7440-50-8	Copper Sulfate	0	0	0	0	0	10,994
-	Filter element, filter bag (lauric acid)	0	0	0	0	0	13,260
-	Gold Resin (Organic Resin)	0	0	0	0	0	16,128
-	Waste chemical empty barrel (Chemical)	0	0	0	0	0	149
-	Waste Flux (Oil)	0	0	0	0	0	1,163
-	Forming frame and waste substrate (organic resin)	0	0	0	0	0	108,223
-	waste ore oil	0	0	0	0	0	697
-	Waste ink (paint)	0	0	0	0	0	8,880
-	Waste ink cartridges (paint)	0	0	0	0	0	7,825
-	Tin removal effluent (lauric acid)	0	0	0	0	0	103,340
-	Copper nitrate wastewater (lauric acid)	0	0	0	0	0	45,570
-	Waste activated carbon (organic matter)	0	0	0	0	0	12,080
-	Dust (Organic Resin)	0	0	0	0	0	49,740

supplier 3

substances		Releases (kg/year)				Transfers (kg/year)	
CAS No.	Name	Air Emission	Water Bodies	Land	On-site Landfills	POTWs	Waste
-	sulfuric acid mist	0	0	0	0	0	0
-	nitrogen oxide	2	0	0	0	0	0
8013-13-6	Formaldehyde	0	0	0	0	0	0
7664-41-7	Ammonia	0	0	0	0	0	0
109103-97-1	hydrogen chloride	1	0	0	0	0	0
74-90-8	hydrogen cyanide	0	0	0	0	0	0
-	non-methane total hydrocarbon	0	0	0	0	0	0
-	granular material	0	0	0	0	0	0
-	ammoniacal nitrogen	0	0	0	0	0	0
7723-14-0	total phosphorus	0	0	0	0	0	0
7727-37-9	total nitrogen	0	3	0	0	0	0
-	suspension	0	5	0	0	0	0
7440-50-8	Copper	0	0	0	0	0	0
7440-02-0	nickel	0	0	0	0	0	0
-	cyanide	0	0	0	0	0	0
8013-13-6	Formaldehyde	0	0	0	0	0	0
-	chemical oxygen demand	0	6	0	0	0	0
-	waste activated carbon	0	0	0	0	0	34
-	Waste flux and waste rosin	0	0	0	0	0	12
-	Waste mineral oil and mineral oil waste	0	0	0	0	0	0
-	Waste ink tanks, pigments, paints and ink waste (waste paper)	0	0	0	0	0	36
-	copper dust	0	0	0	0	0	143
-	Epoxy Resin Board and Other Resins	0	0	0	0	0	2
-	dry slag	0	0	0	0	0	41
-	waste film	0	0	0	0	0	2
-	waste film	0	0	0	0	0	4
-	tin effluent containing (peeling)	0	0	0	0	0	233
-	tin slag and tin containing waste	0	0	0	0	0	1
-	waste containing palladium	0	0	0	0	0	1
-	Potassium permanganate waste liquid and waste residue	0	0	0	0	0	2
-	Copper Sludge and Copper Waste Powder	0	0	0	0	0	732
-	Wiring board etching waste liquid	0	0	0	0	0	1,241
-	Edge material and waste circuit board	0	0	0	0	0	250
-	waste oily rag	0	0	0	0	0	0
-	waste filter cartridge	0	0	0	0	0	11
-	Waste packaging container and empty medicine bucket	0	0	0	0	0	8
-	reagent waste	0	0	0	0	0	0

<Motor>

supplier 1

substances		Releases (kg/year)				Transfers (kg/year)	
CAS No.	Name	Air Emission	Water Bodies	Land	On-site Landfills	POTWs	Waste
-	Fluorides (as total F)	455	0	0	0	0	0
100-41-4	Ethylbenzene	107	0	0	0	0	0
108-95-2	Phenols	132	0	0	0	0	0
1330-20-7	Xylene	85	0	0	0	0	0

supplier 2

substances		Releases (kg/year)				Transfers (kg/year)	
CAS No.	Name	Air Emission	Water Bodies	Land	On-site Landfills	POTWs	Waste
100-42-5	styrene	211	0	0	0	0	0
108-88-3	toluene	287	0	0	0	0	0
1330-20-7	xylene	2,292	0	0	0	0	0
109-86-4	ethylene glycol monomethyl ether	1,007	0	0	0	0	0

supplier 3

substances		Releases (kg/year)				Transfers (kg/year)	
CAS No.	Name	Air Emission	Water Bodies	Land	On-site Landfills	POTWs	Waste
64742-55-8	Paraffinic distillate, light, hydrotreated (severe)	0	0	0	0	0	192
64741-88	Paraffinic distillate, heavy, solvent-refined (severe)						
471-34-1	Calcium carbonate						
64742-47-8	Hydrotreated light distillate	0	0	0	0	0	27,588
64742-48-9	Naphtha petroleum, heavy, hydrotreated	0	0	0	0	0	7,200
111-84-2	N-Nonane						
64742-48-9	Naphtha petroleum, isoparaffin, hydrotreated						
-	Rust prevention additives	0	0	0	0	0	576
-	Mineral oil						
-	Petroleum solvents						
67-63-0	Isopropanol	0	0	0	0	0	2,460
67-56-1	Methanol	0	0	0	0	0	0
67-63-0	Isopropyl alcohol						
-	Organic acid						
-	Surfactant	0	0	0	0	0	420
79-10-7	Acrylic acid						
27813-02-1	Methacrylic acid, monoester with propane-1,2-diol						
24650-42-8	Ethanone, 2,2-dimethoxy-1,2-diphenyl						
80-15-9	Cumene hydroperoxide						
98-82-8	Cumene	0	0	0	0	0	78
7085-85-0	Ethyl 2 - cyanoacrylate						
85-44-9	Phthalic anhydride						
25068-38-6	Bisphenol A epoxy resin	0	0	0	0	0	3,672
9003-36-5	Bisphenol F epoxy resin						
12070-12-1	Tungsten carbide						
1309-37-1	Ferric oxide						
Confidential	Others	0	0	0	0	0	3,600
7440-31-5	Tin						
7440-22-4	Silver						
7440-50-8	Copper						
-	Rosin						
-	Solvent	0	0	0	0	0	2,156
-	Silicone modified polymer						
-	Fillers						
-	Hydrocarbonresin						
-	Paraffin						
1333-86-4	Cabon black	0	0	0	0	0	3,636
-	Organic tin compound						
7440-31-5	Tin						
7440-22-4	Silver						
7440-50-8	Copper						

2023 List of PRTR chemical substances

<Integrated circuit/semiconductor>

POTWs ;publically (publicly) owned treatment works

supplier 1

substances		Releases (kg/year)				Transfers (kg/year)	
CAS No.	Name	Air Emission	Water Bodies	Land	On-site Landfills	POTWs	Waste
141-43-5	2-Aminoethanol	230	0	0	0	0	8,000
-	Antimony and its compounds	0	0	0	0	0	3,270
100-41-4	Ethylbenzene	14,480	0	0	0	0	20,430
1330-20-7	Xylene	21,804	0	0	0	0	19,900
-	Chromium and chromium(III) compounds	0	0	0	0	0	510
-	Cobalt and its compounds	0	0	0	0	0	1,800
75-71-8	Dichlorodifluoromethane (synonym: CFC-12)	2	0	0	0	0	0
127-19-5	N,N-Dimethylacetamide	210	0	0	0	0	3,400
100-42-5	Styrene	13,000	0	0	0	0	1,800
-	Water-soluble copper salts (except for complex salts)	0	0	0	0	26	14,000
108-88-3	Toluene	32,757	0	0	0	0	38,590
7440-02-0	Nickel	0	0	0	0	0	1,230
-	Nickel compounds	0	0	0	0	0	1,810
-	Hydrogen fluoride and its water-soluble salts	1,020	780	0	0	0	7,940
106-94-5	1-Bromopropane	5,100	0	0	0	0	1,600
71-43-2	Benzene	21	0	0	0	0	0
-	Boron compounds	0	0	0	0	0	160
50-00-0	Formaldehyde	0	0	0	0	430	270
-	Manganese and its compounds	0	0	0	0	0	1,389
85-44-9	Phthalic anhydride	0	0	0	0	0	19
80-62-6	Methyl methacrylate	2,200	0	0	0	0	690
90-12-0	Methylnaphthalene	6	0	0	0	0	0
-	Molybdenum and its compounds	0	29	0	0	0	0
556-67-2	Octamethylcyclotetrasiloxane	510	0	0	0	0	9,300
112-34-5	Diethylene glycol monobutyl ether	110	0	0	0	0	8,100
75-59-2	Tetramethylammonium hydroxide	0	75	0	0	0	0
25551-13-7	Trimethylbenzene	3,268	0	0	0	0	5,300
-	Lead and its compounds	0	0	0	0	0	1,266
142-82-5	Heptane	2,800	0	0	0	0	490
108-10-1	Methyl isobutyl ketone	0	0	0	0	0	2,258
872-50-4	N-Methyl-2-pyrrolidone	13,910	0	0	0	0	24,340

supplier 2

substances		Releases (kg/year)				Transfers (kg/year)	
CAS No.	Name	Air Emission	Water Bodies	Land	On-site Landfills	POTWs	Waste
1330-20-7	Xylene	48	0	0	0	0	1,200
127-19-5	N,N-Dimethylacetamide	130	0	0	0	0	3,100
302-01-2	Hydrazine	52	0	0	0	0	730
108-95-2	Phenol	54	0	0	0	0	1,300
-	Hydrogen fluoride and its water-soluble salts	260	0	0	0	1,300	0
90-12-0	Methylnaphthalene	10	0	0	0	0	0
872-50-4	N-Methyl-2-pyrrolidone	73	0	0	0	0	1,800

supplier 3

substances		Releases (kg/year)				Transfers (kg/year)	
CAS No.	Name	Air Emission	Water Bodies	Land	On-site Landfills	POTWs	Waste
141-43-5	2-Aminoethanol	16	0	0	0	0	0
-	Antimony and its compounds	20	5	0	0	0	5,200
100-41-4	Ethylbenzene	0	0	0	0	67	230
1330-20-7	Xylene	1,500	0	0	0	90	2,500
100-97-0	1,3,5,7-Tetraazatricyclo[3.3.1.1(3,7)]decane (synonym: Hexamethylenetetramine)	2	3	0	0	0	520
127-18-4	Tetrachloroethylene	76	0	0	0	0	1,300
26471-62-5	Tolylene diisocyanate	0	0	0	0	0	100
108-88-3	Toluene	3,000	0	0	0	0	69
108-95-2	Phenol	9	0	0	0	0	2,200
-	Hydrogen fluoride and its water-soluble salts	27	0	0	0	950	7,900
90-12-0	Methylnaphthalene	43	0	0	0	0	0
	Methylenebis(4,1-phenylene) diisocyanate	2	0	0	0	0	6,000
-	Molybdenum and its compounds	5	0	0	0	0	1,200
9016-87-9	alpha-(Isocyanatobenzyl)-omega-(isocyanatophenyl)poly[(isocyanatophenyl ene)methylene]	0	0	0	0	0	3,700
111-76-2	Ethylene glycol monobutyl ether (synonym: Butyl cellosolve)	13	8	0	0	0	35
409-21-2	Silicon carbide	0	0	0	0	0	6,411
109-99-9	Tetrahydrofuran	210	0	0	0	0	460
1071-93-8	Hexanedihydrazide	0	0	0	0	0	49
108-10-1	Methyl isobutyl ketone	15	0	0	0	0	0
872-50-4	N-Methyl-2-pyrrolidone	854	0	0	0	0	11,700

<Unpopulated printed circuit board>
supplier 1

substances		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	92,148	21,959	0	0	78,057	0
88917-22-0	Methyl-2-[2-methoxy(methyl)ethoxy]ethyl acetate	92,148	21,959	0	0	78,057	0
182697-62-7	[Polymer of 2-(chloromethyl)oxirane / cresol / formaldehyde] cyclohex-4-en-1,2-dicarboxylate acrylate	32,252	38,429	0	0	614,700	0
64742-94-5	Solvent naphtha (petroleum), heavy aromatic	3,686	4,392	0	0	70,251	0
119313-12-1	2-Benzyl-2-(N,N-dimethylamino)-1-(4-morpholinophenyl)butan-1-one	4,607	5,490	0	0	87,814	0
75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	46,074	5,490	0	0	43,907	0
7727-43-7	Barium sulfate	276,444	32,939	0	0	263,443	0
91-20-3	Naphthalene	9,215	1,098	0	0	8,781	0
107-83-5	2-Methylpentane	20	12	0	0	180	0
96-14-0	3-Methylpentane	15	9	0	0	136	0
110-54-3	Hexane	19	11	0	0	168	0
589-34-4	3-Methylhexane	59	35	0	0	529	0
591-76-4	2-methylhexane	52	31	0	0	464	0
142-82-5	Heptane	58	34	0	0	518	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	92	0
7697-37-2	Nitric acid	5,235	20,794	0	0	160,765	0
10257-54-2	Copper(II) sulfate monohydrate	1,086	4,311	0	0	33,332	0
7664-93-9	Sulfuric acid	584,246	18,563,721	0	0	3,505,579	0
98-67-9	4-hydroxybenzenesulphonic acid	55,367	1,759,221	0	0	332,212	0
7440-50-8	Copper	0	0	0	0	6,650,119	0
460-19-5	Oxalonnitrile	0	0	0	0	0	0
1310-73-2	Sodium hydroxide	391	12,429	0	0	2,347	0
7440-43-9	Cadmium	0	0	0	0	646	0

supplier 2

substances		Releases (kg/year)				Transfers (kg/year)	
CAS No.	Name	Air Emission	Water Bodies	Land	On-site Landfills	POTWs	Waste
-	sulfuric acid mist	231	0	0	0	0	0
-	nitrogen oxide	2,307	0	0	0	0	0
8013-13-6	Formaldehyde	0	0	0	0	0	0
7664-41-7	Ammonia	90	0	0	0	0	0
109103-97-1	hydrogen chloride	636	0	0	0	0	0
74-90-8	hydrogen cyanide	0	0	0	0	0	0
-	non-methane total hydrocarbon	1,419	0	0	0	0	0
-	granular material	166	0	0	0	0	0
7440-31-5	Tin and its compounds	0	0	0	0	0	0
-	COD	0	8,669	0	0	0	0
-	ammoniacal nitrogen	0	310	0	0	0	0
7723-14-0	total phosphorus	0	28	0	0	0	0
7727-37-9	total nitrogen	0	2,543	0	0	0	0
-	suspension	0	3,544	0	0	0	0
7440-50-8	Copper	0	29	0	0	0	0
7440-02-0	nickel	0	7	0	0	0	0
-	cyanide	0	1	0	0	0	0
-	petroleum	0	3,034	0	0	0	0
8013-13-6	Formaldehyde	0	34	0	0	0	0
-	total tin	0	22	0	0	0	0
-	total manganese	0	12	0	0	0	0
7440-02-0	Nickel-containing sludge (nickel)	0	0	0	0	0	44,100
7440-50-8	Copper-containing sludge (copper)	0	0	0	0	0	3,784,050
-	Negative film (photosensitive material)	0	0	0	0	0	8,962
-	Waste epoxy resin base material (organic resin)	0	0	0	0	0	49,020
7440-02-0	Nickel waste liquid (nickel)	0	0	0	0	0	131,710
-	Gold waste (cyanide)	0	0	0	0	0	1,688
7440-50-8	Copper Waste Liquid (Copper)	0	0	0	0	0	2,933,370
7440-50-8	Copper Sulfate	0	0	0	0	0	42,761
-	Filter element, filter bag (lauric acid)	0	0	0	0	0	58,842
-	Gold Resin (Organic Resin)	0	0	0	0	0	60,850
-	Waste chemical empty barrel (Chemical)	0	0	0	0	0	661
-	Waste Flux (Oil)	0	0	0	0	0	3,064
-	Forming frame and waste substrate (organic resin)	0	0	0	0	0	499,360
-	waste ore oil	0	0	0	0	0	1,335
-	Waste ink (paint)	0	0	0	0	0	33,435
-	Waste ink cartridges (paint)	0	0	0	0	0	32,520
-	Tin removal effluent (lauric acid)	0	0	0	0	0	409,150
-	Copper nitrate wastewater (lauric acid)	0	0	0	0	0	153,540
-	Waste activated carbon (organic matter)	0	0	0	0	0	17,610
-	Dust (Organic Resin)	0	0	0	0	0	217,620

supplier 3

substances		Releases (kg/year)				Transfers (kg/year)	
CAS No.	Name	Air Emission	Water Bodies	Land	On-site Landfills	POTWs	Waste
-	sulfuric acid mist	1	0	0	0	0	0
-	nitrogen oxide	1	0	0	0	0	0
8013-13-6	Formaldehyde	0	0	0	0	0	0
7664-41-7	Ammonia	0	0	0	0	0	0
109103-97-1	hydrogen chloride	0	0	0	0	0	0
74-90-8	hydrogen cyanide	0	0	0	0	0	0
-	non-methane total hydrocarbon	0	0	0	0	0	0
-	granular material	0	0	0	0	0	0
-	ammoniacal nitrogen	0	0	0	0	0	0
7723-14-0	total phosphorus	0	0	0	0	0	0
7727-37-9	total nitrogen	0	3	0	0	0	0
-	suspension	0	5	0	0	0	0
7440-50-8	Copper	0	0	0	0	0	0
7440-02-0	nickel	0	0	0	0	0	0
-	cyanide	0	0	0	0	0	0
8013-13-6	Formaldehyde	0	0	0	0	0	0
-	chemical oxygen demand	0	6	0	0	0	0
-	waste activated carbon	0	0	0	0	0	34
-	Waste flux and waste rosin	0	0	0	0	0	8
-	Waste mineral oil and mineral oil waste	0	0	0	0	0	0
-	Waste ink tanks, pigments, paints and ink waste (waste paper)	0	0	0	0	0	33
-	copper dust	0	0	0	0	0	155
-	dry slag	0	0	0	0	0	42
-	waste film	0	0	0	0	0	2
-	waste film	0	0	0	0	0	4
-	tin effluent containing (peeling)	0	0	0	0	0	177
-	waste containing palladium	0	0	0	0	0	1
-	Potassium permanganate waste liquid and waste residue	0	0	0	0	0	0
-	Copper Sludge and Copper Waste Powder	0	0	0	0	0	692
-	Wiring board etching waste liquid	0	0	0	0	0	1,184
-	nitric acid waste	0	0	0	0	0	1
-	Edge material and waste circuit board	0	0	0	0	0	243
-	waste filter cartridge	0	0	0	0	0	23
-	Waste packaging container and empty medicine bucket	0	0	0	0	0	9
-	reagent waste	0	0	0	0	0	0

<Motor>
supplier 1

substances		Releases (kg/year)				Transfers (kg/year)	
CAS No.	Name	Air Emission	Water Bodies	Land	On-site Landfills	POTWs	Waste
-	Fluorides (as total F)	553	0	0	0	0	0
100-41-4	Ethylbenzene	48	0	0	0	0	0
108-95-2	Phenols	156	0	0	0	0	0
1330-20-7	Xylene	38	0	0	0	0	0

supplier 2

substances		Releases (kg/year)				Transfers (kg/year)	
CAS No.	Name	Air Emission	Water Bodies	Land	On-site Landfills	POTWs	Waste
100-42-5	styrene	183	0	0	0	0	0
108-88-3	toluene	275	0	0	0	0	0
1330-20-7	xylene	2,351	0	0	0	0	0
109-86-4	ethylene glycol monomethyl ether	964	0	0	0	0	0

supplier 3

substances		Releases (kg/year)				Transfers (kg/year)	
CAS No.	Name	Air Emission	Water Bodies	Land	On-site Landfills	POTWs	Waste
64742-55-8	Paraffinic distillate, light, hydrotreated (severe)	0	1	2	3	4	240
64741-88	Paraffinic distillate, heavy, solvent-refined (severe)						
471-34-1	Calcium carbonate						
64742-47-8	Hydrotreated light distillate	0	0	0	0	0	26,400
64742-48-9	Naphtha petroleum, heavy, hydrotreated	0	0	0	0	0	7,200
111-84-2	N-Nonane						
64742-48-9	Naphtha petroleum, isoparaffin, hydrotreated						
-	Rust prevention additives	0	0	0	0	0	680
-	Mineral oil						
-	Petroleum solvents						
67-63-0	Isopropanol	0	0	0	0	0	3,120
67-63-0	2-Propanol	0	0	0	0	0	0
-	Gum rosin						
-	Disproportionated rosin						
-	Palmitic acid						
109-16-0	2,2'-Ethylenedioxydiethyl dimethacrylate	0	0	0	0	0	360
24650-42-8	Ethanone, 2,2-dimethoxy-1,2-dipheny						
27813-02-1	Methacrylic acid, monoester with propane-1,2-dio						
79-10-7	Acrylic acid						
80-15-9	α , α -dimethylbenzyl hydroperoxide						
114-83-0	Acetic acid, 2-phenylhydrazide						
80-62-6	methyl methacrylate						
7085-85-0	Ethyl 2 - cyanoacrylate	0	0	0	0	0	60
85-44-9	Phthalic anhydride	0	0	0	0	0	5,208
25068-38-6	Bisphenol A epoxy resin						
9003-36-5	Bisphenol F epoxy resin						
12070-12-1	Tungsten carbide						
1309-37-1	Ferric oxide						
-	Others						
-	Polyamidoamine						
-	Tungsten Carbide	0	0	0	0	0	40,800
-	Ferric Oxide						
7440-31-5	Tin						
7440-22-4	Silver						
7440-50-8	Copper						
-	Rosin						
-	Solvent						
-	Silicone modified polymer	0	0	0	0	0	3,816
-	Fillers						
-	Hydrocarbonresin						
-	Paraffin						
1333-86-4	Cabon black	0	0	0	0	0	3,816
-	Organic tin compound						
7440-31-5	Tin						
7440-22-4	Silver	0	0	0	0	0	3,816
7440-50-8	Copper						