

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.

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
-	Waste Mineral Oil	0	0	0	0	0	14,800
-	Waste Paint	0	0	0	0	0	7,400
-	Waste Containers and Cans	0	0	0	0	0	8,340
-	Waste Fluorescent Lamps	0	0	0	0	0	0
-	Waste Organic Resin	0	0	0	0	0	0
-	Waste Batteries	0	0	0	0	0	55
-	Waste Organic Solvents	0	0	0	0	0	15,730
-	Sludge	0	0	0	0	0	25,460
-	Spent Activated Carbon	0	0	0	0	0	13,620

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						
-	Organic tin compound	0	0	0	0	0	3,816
7440-31-5	Tin						
7440-22-4	Silver						
7440-50-8	Copper						

2024 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	170	0	0	0	0	8,100
-	Antimony and its compounds	0	0	0	0	0	2,250
100-41-4	Ethylbenzene	9,410	0	0	0	0	15,820
1330-20-7	Xylene	10,844	0	0	0	0	19810
-	Chromium and chromium(III) compounds	0	0	0	0	0	410
-	Cobalt and its compounds	0	0	0	0	0	890
75-71-8	Dichlorodifluoromethane (synonym: CFC-12)	0	0	0	0	0	0
127-19-5	N,N-Dimethylacetamide	240	0	0	0	0	3,800
11070-44-3	Tetrahydromethylphthalicanhydride	0	0	0	0	0	0
-	Water-soluble copper salts (except for complex salts)	0	0	0	0	28	14,000
75-69-4	Trichlorofluoromethane (synonym: CFC-11)	0	0	0	0	0	0
108-88-3	Toluene	20,720	0	0	0	0	25,810
7440-02-0	Nickel	0	0	0	0	0	1,790
-	Nickel compounds	0	0	0	0	0	12
-	Hydrogen fluoride and its water-soluble salts	1250	1,400	0	0	0	7,280
106-94-5	1-Bromopropane	3,800	0	0	0	0	7,500
71-43-2	Benzene	22	0	0	0	0	0
-	Boron compounds	0	0	0	0	0	370
50-00-0	Formaldehyde	0	0	0	0	400	300
-	Manganese and its compounds	0	0	0	0	0	6,640
80-62-6	Methyl methacrylate	2,300	0	0	0	0	850
90-12-0	Methylnaphthalene	43	0	0	0	0	300
-	Molybdenum and its compounds	0	44	0	0	0	0
556-67-2	Octamethylcyclotetrasiloxane	470	0	0	0	0	8,600
112-34-5	Diethylene glycol monobutyl ether	120	0	0	0	0	7,800
75-59-2	Tetramethylammonium hydroxide	0	86	0	0	0	0
25551-13-7	Trimethylbenzene	3,145	0	0	0	0	5,820
-	Lead and its compounds	0	0	0	0	0	1,017
142-82-5	Heptane	2,000	0	0	0	0	350
108-10-1	Methyl isobutyl ketone	0	0	0	0	0	2,000
872-50-4	N-Methyl-2-pyrrolidone	14,202	0	0	0	0	33,310

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	61	0	0	0	0	1,500
127-19-5	N,N-Dimethylacetamide	100	0	0	0	0	2,500
302-01-2	Hydrazine	62	0	0	0	0	700
108-95-2	Phenol	61	0	0	0	0	1,500
-	Hydrogen fluoride and its water-soluble salts	230	0	0	0	1,100	0
90-12-0	Methylnaphthalene	9	0	0	0	0	0
872-50-4	N-Methyl-2-pyrrolidone	64	0	0	0	0	1,500

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	19	0	0	0	0	330
-	n-alkylbenzenesulfonic acid and its salts (alkyl C=10-14)	3	0	0	0	0	0
-	Antimony and its compounds	18	5	0	0	0	4,900
100-41-4	Ethylbenzene	1500	0	0	0	63	210
1330-20-7	Xylene	1,800	0	0	0	83	2,200
100-97-0	1,3,5,7-Tetraazatricyclo[3.3.1.1(3,7)]decane (synonym: Hexamethylenetetramine)	2	3	0	0	0	480
127-18-4	Tetrachloroethylene	83	0	0	0	0	980
26471-62-5	Tolylene diisocyanate	0	0	0	0	0	0
108-88-3	Toluene	4,600	0	0	0	0	72
108-95-2	Phenol	8	0	0	0	0	1,900
-	Hydrogen fluoride and its water-soluble salts	9	0	0	0	590	0
90-12-0	Methylnaphthalene	45	0	0	0	0	0
	Methylenebis(4,1-phenylene) diisocyanate	6	0	0	0	0	2,100
-	Molybdenum and its compounds	4	0	0	0	0	1,100
9016-87-9	alpha-(Isocyanatobenzyl)-omega-(isocyanatophenyl)poly[(isocyanatophenyl)ene)methylene]	0	0	0	0	0	0
111-76-2	Ethylene glycol monobutyl ether (synonym: Butyl cellosolve)	18	10	0	0	0	46
409-21-2	Silicon carbide	0	0	0	0	0	6,618
109-99-9	Tetrahydrofuran	250	0	0	0	0	2,200
1071-93-8	Hexanedihydrazide	0	0	0	0	0	55
108-10-1	Methyl isobutyl ketone	8	0	0	0	0	0
872-50-4	N-Methyl-2-pyrrolidone	899	0	0	0	0	6,900

**<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	110,850	23,326	0	0	133,279	0
88917-22-0	Methyl-2-[2-methoxy(methyl)ethoxy]ethyl acetate	110,850	23,326	0	0	133,279	0
182697-62-7	[Polymer of 2-(chloromethyl)oxirane / cresol / formaldehyde] cyclohex-4-en-1,2-dicarboxylate acrylate	38,797	40,821	0	0	1,049,569	0
64742-94-5	Solvent naphtha (petroleum), heavy aromatic	4,434	4,665	0	0	119,951	0
119313-12-1	2-Benzyl-2-(N,N-dimethylamino)-1-(4-morpholinophenyl)butan-1-one	5,542	5,832	0	0	149,938	0
75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	55,425	5,832	0	0	74,969	0
7727-43-7	Barium sulfate	332,549	34,989	0	0	449,815	0
91-20-3	Naphthalene	11,085	1,166	0	0	14,994	0
107-83-5	2-Methylpentane	24	13	0	0	308	0
96-14-0	3-Methylpentane	18	10	0	0	231	0
110-54-3	Hexane	22	12	0	0	287	0
589-34-4	3-Methylhexane	71	37	0	0	903	0
591-76-4	2-methylhexane	62	33	0	0	792	0
142-82-5	Heptane	69	36	0	0	884	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	158	0
7697-37-2	Nitric acid	6,298	22,088	0	0	274,497	0
10257-54-2	Copper(II) sulfate monohydrate	1,306	4,580	0	0	56,914	0
7664-93-9	Sulfuric acid	702,820	19,719,425	0	0	5,985,596	0
98-67-9	4-hydroxybenzenesulphonic acid	66,604	1,868,743	0	0	567,235	0
7440-50-8	Copper	0	0	0	0	11,354,739	0
460-19-5	Oxalonirole	0	0	0	0	0	0
1310-73-2	Sodium hydroxide	471	13,203	0	0	4,008	0
7440-43-9	Cadmium	0	0	0	0	1,103	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	678	0	0	0	0	0
-	nitrogen oxide	1,128	0	0	0	0	0
8013-13-6	Formaldehyde	33	0	0	0	0	0
7664-41-7	Ammonia	64	0	0	0	0	0
109103-97-1	hydrogen chloride	538	0	0	0	0	0
74-90-8	hydrogen cyanide	0	0	0	0	0	0
-	non-methane total hydrocarbon	3,029	0	0	0	0	0
-	granular material	292	0	0	0	0	0
7440-31-5	Tin and its compounds	0	0	0	0	0	0
-	COD	0	8,666	0	0	0	0
-	ammoniacal nitrogen	0	259	0	0	0	0
7723-14-0	total phosphorus	0	41	0	0	0	0
7727-37-9	total nitrogen	0	2,511	0	0	0	0
-	suspension	0	4,405	0	0	0	0
7440-50-8	Copper	0	11	0	0	0	0
7440-02-0	nickel	0	6	0	0	0	0
-	cyanide	0	0	0	0	0	0
-	petroleum	0	3,804	0	0	0	0
8013-13-6	Formaldehyde	0	7	0	0	0	0
-	total tin	0	0	0	0	0	0
-	total manganese	0	18	0	0	0	0
7440-02-0	Nickel-containing sludge (nickel)	0	0	0	0	0	43,800
7440-50-8	Copper-containing sludge (copper)	0	0	0	0	0	3,739,540
-	Negative film (photosensitive material)	0	0	0	0	0	8,485
-	Waste epoxy resin base material (organic resin)	0	0	0	0	0	47,130
7440-02-0	Nickel waste liquid (nickel)	0	0	0	0	0	155,450
-	Gold waste (cyanide)	0	0	0	0	0	854
7440-50-8	Copper Waste Liquid (Copper)	0	0	0	0	0	3,070,680
7440-50-8	Copper Sulfate	0	0	0	0	0	33,583
-	Filter element, filter bag (lauric acid)	0	0	0	0	0	48,411
-	Gold Resin (Organic Resin)	0	0	0	0	0	65,670
-	Waste chemical empty barrel (Chemical)	0	0	0	0	0	515
-	Waste Flux (Oil)	0	0	0	0	0	6,626
-	Forming frame and waste substrate (organic resin)	0	0	0	0	0	502,808
-	waste ore oil	0	0	0	0	0	856
-	Waste ink (paint)	0	0	0	0	0	54,056
-	Waste ink cartridges (paint)	0	0	0	0	0	35,240
-	Tin removal effluent (lauric acid)	0	0	0	0	0	392,695
-	Copper nitrate wastewater (lauric acid)	0	0	0	0	0	221,470
-	Waste activated carbon (organic matter)	0	0	0	0	0	22,250
-	Dust (Organic Resin)	0	0	0	0	0	224,937

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	0	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	1	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	7	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	9	0	0	0	0
-	waste activated carbon	0	0	0	0	0	32
-	Waste flux and waste rosin	0	0	0	0	0	9
-	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	37
-	copper dust	0	0	0	0	0	184
-	Epoxy Resin Board and Other Resins	0	0	0	0	0	0
-	dry slag	0	0	0	0	0	62
-	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	248
-	Nickel-containing Waste Liquid	0	0	0	0	0	0
-	tin slag and tin containing waste	0	0	0	0	0	0
-	waste containing palladium	0	0	0	0	0	1
-	Potassium permanganate waste liquid and waste residue	0	0	0	0	0	2
-	Waste Copper Sulfate Solution	0	0	0	0	0	0
-	Cyanide-containing Waste Liquid	0	0	0	0	0	0
-	Copper Sludge and Copper Waste Powder	0	0	0	0	0	1,035
-	Wiring board etching waste liquid	0	0	0	0	0	1,314
-	Waste Nitric Acid Solution	0	0	0	0	0	0
-	Edge material and waste circuit board	0	0	0	0	0	278
-	waste oily rag	0	0	0	0	0	0
-	waste filter cartridge	0	0	0	0	0	15
-	Waste packaging container and empty medicine bucket	0	0	0	0	0	10
-	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)	197	0	0	0	0	0
100-41-4	Ethylbenzene	46	0	0	0	0	0
108-95-2	Phenols	132	0	0	0	0	0
1330-20-7	Xylene	32	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
-	Waste Mineral Oil	0	0	0	0	0	14,900
-	Waste Paint	0	0	0	0	0	7,400
-	Waste Containers and Cans	0	0	0	0	0	7,770
-	Waste Fluorescent Lamps	0	0	0	0	0	0
-	Waste Organic Resin	0	0	0	0	0	0
-	Waste Batteries	0	0	0	0	0	43
-	Waste Organic Solvents	0	0	0	0	0	17,630
-	Sludge	0	0	0	0	0	22,180
-	Spent Activated Carbon	0	0	0	0	0	10,990

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	240
64741-88	Paraffinic distillate, heavy, solvent-refined (severe)						
471-34-1	Calcium carbonate						
68551-17-7	Alkanes, C10-13-iso-	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	3,426
67-63-0	2-Propanol	0	0	0	0	0	0
2246493	Gum rosin						
-	Disproportionated rosin						
-	Palmitic acid						
109-16-0	2,2'-Ethylenedioxydiethyl dimethacrylate	0	0	0	0	0	216
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	72
85-44-9	Phthalic anhydride	0	0	0	0	0	3,528
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	3,264
7440-31-5	Tin						
7440-22-4	Silver						
7440-50-8	Copper						
-	Rosin						
-	Solvent						
-	Silicone modified polymer						
-	Fillers	0	0	0	0	0	4,515
-	Hydrocarbonresin						
-	Paraffin						
1333-86-4	Cabon black						
-	Organic tin compound	0	0	0	0	0	3,600
7440-31-5	Tin						
7440-22-4	Silver						
7440-50-8	Copper						

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	240
64741-88	Paraffinic distillate, heavy, solvent-refined (severe)						
471-34-1	Calcium carbonate						
68551-17-7	Alkanes, C10-13-iso-	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	3,426
67-63-0	2-Propanol	0	0	0	0	0	0
2246493	Gum rosin						
-	Disproportionated rosin						
-	Palmitic acid						
109-16-0	2,2'-Ethylenedioxydiethyl dimethacrylate	0	0	0	0	0	216
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	72
85-44-9	Phthalic anhydride	0	0	0	0	0	3,528
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	3,264
7440-31-5	Tin						
7440-22-4	Silver						
7440-50-8	Copper						
-	Rosin						
-	Solvent						
-	Silicone modified polymer						
-	Fillers	0	0	0	0	0	4,515
-	Hydrocarbonresin						
-	Paraffin						
1333-86-4	Cabon black						
-	Organic tin compound	0	0	0	0	0	3,600
7440-31-5	Tin						
7440-22-4	Silver						
7440-50-8	Copper						