

## Volume of Discharge and Transportation That Require Notification Under PRTR Law (fiscal 2009)

### Iron & Steel Business

#### Kakogawa Works

Substance	Discharge			Landfill on premises	Transportation		Major processes and purposes of use
	Atmosphere	Public water body	Soil		Sewage	Outside office	
Toluene	21,000	0	0	0	0	290	Coating
Xylene	16,000	0	0	0	0	2,000	Coating
Hydrogen fluoride and its water-soluble salt	0	12,000	0	0	0	1,100	Pickling of steel sheet/plate surface during rolling process

#### Kobe Works

Substance	Discharge			Landfill on premises	Transportation		Major processes and purposes of use
	Atmosphere	Public water body	Soil		Sewage	Outside office	
Manganese and its compounds	13	190	0	0	0	63,000	Steelmaking
Chromium and trivalent chromium compounds	6.7	6.1	0	0	0	22,000	Steelmaking
Molybdenum and its compounds	13	800	0	0	0	1,300	Steelmaking

#### Takasago Works

Substance	Discharge			Landfill on premises	Transportation		Major processes and purposes of use
	Atmosphere	Public water body	Soil		Sewage	Outside office	
Xylene	56,000	0	0	0	0	490	Coating
Dichloromethane (methylene chloride )	53,000	0	0	0	0	260	Degreasing titanium scrap
Toluene	32,000	0	0	0	0	850	Contained in steel-powder binder material

#### Shinko Kenzai, Ltd.

Substance	Discharge			Landfill on premises	Transportation		Major processes and purposes of use
	Atmosphere	Public water body	Soil		Sewage	Outside office	
Xylene	12,000	0	0	0	0	0	Coating

#### Shinko Wire Company, Ltd. (Amagasaki Factory)

Substance	Discharge			Landfill on premises	Transportation		Major processes and purposes of use
	Atmosphere	Public water body	Soil		Sewage	Outside office	
Water-soluble compounds of zinc	0	130	0	0	0	8,900	Processing
Lead and its compounds	0	5.8	0	0	0	5,900	Heat treatment

#### Shinko Wire Company, Ltd. (Onoe Factory)

Substance	Discharge			Landfill on premises	Transportation		Major processes and purposes of use
	Atmosphere	Public water body	Soil		Sewage	Outside office	
Water-soluble compounds of zinc	0	47	0	0	0	2,800	Processing
Lead and its compounds	0	2.9	0	0	0	1,600	Heat treatment

#### Kobe Special Tube Co., Ltd.

Substance	Discharge			Landfill on premises	Transportation		Major processes and purposes of use
	Atmosphere	Public water body	Soil		Sewage	Outside office	
Hydrogen fluoride and its water-soluble salt	100	3,000	0	0	0	11	Pickling

#### Shinko Bolt, Ltd.

\* Below the minimum volume that requires notification under the PRTR Law

Ceratechno Co., Ltd. (Akashi Plant)

Substance	Discharge			Landfill on premises	Transportation		Major processes and purposes of use
	Atmosphere	Public water body	Soil		Sewage	Outside office	
Chromium and trivalent chromium compounds	0	0	0	0	0	16,000	Raw material for packing gravel
Phenol	340	0	0	0	0	3.9	Brick binder
Ethylene glycol	200	0	0	0	0	31	Brick binder

Ceratechno Co., Ltd. (Bizen Plant)

Substance	Discharge			Landfill on premises	Transportation		Major processes and purposes of use
	Atmosphere	Public water body	Soil		Sewage	Outside office	
Ethylene glycol	21,000	0	0	0	0	130	Brick binder
Phenol	8,500	0	0	0	0	53	Brick binder
1,3,5,7-tetra aza tricyclo [3.3.1.13.7] decan (hexamethylenetetramine )	0	0	0	0	0	36	Brick hardener

Ceratechno Co., Ltd. (Bizen Plant)

Substance	Discharge			Landfill on premises	Transportation		Major processes and purposes of use
	Atmosphere	Public water body	Soil		Sewage	Outside office	
Dichloromethane (methylene chloride )	6,400	0	0	0	0	310	Wire drawing

Nippon Koshuha Steel Co., Ltd.

Substance	Discharge			Landfill on premises	Transportation		Major processes and purposes of use
	Atmosphere	Public water body	Soil		Sewage	Outside office	
Hydrogen fluoride and its water-soluble salt	360	5,200	0	0	0	78,000	Auxiliary material for steelmaking
Nickel compounds	1.6	160	0	0	0	22,000	Material for steelmaking
Chromium and trivalent chromium compounds	19	100	0	0	0	22,000	Material for steelmaking

Kansai Coke and Chemicals Co., Ltd. (Kakogawa Plant)

Substance	Discharge			Landfill on premises	Transportation		Major processes and purposes of use
	Atmosphere	Public water body	Soil		Sewage	Outside office	
Benzene	4,100	0	0	0	0	0	Coke oven
Toluene	1,100	0	0	0	0	0	Coke oven
Xylene	280	0	0	0	0	0	Coke oven

Shinko Kobe Power Inc.

Substance	Discharge			Landfill on premises	Transportation		Major processes and purposes of use
	Atmosphere	Public water body	Soil		Sewage	Outside office	
Hydrazine	0	0	0	0	0	0	Power boiler

Welding Business  
Fujisawa Industrial Operations

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Ibaraki Plant

Substance	Discharge			Landfill on premises	Transportation		Major processes and purposes of use
	Atmosphere	Public water body	Soil		Sewage	Outside office	
Manganese and its compounds	8.0	0	0	0	0	17,000	Added to welding wire
Molybdenum and its compounds	2.2	0	0	0	0	14,000	Added to welding wire
Chromium and trivalent chromium compounds	0.9	0	0	0	0	2,200	Added to stainless welding wire

Saijo Plant

Substance	Discharge			Landfill on premises	Transportation		Major processes and purposes of use
	Atmosphere	Public water body	Soil		Sewage	Outside office	
Manganese and its compounds	12	0	0	0	0	5,300	Added to welding rod
Xylene	260	0	0	0	0	0	Contained in fuel kerosene
Nickel	0	0	0	0	0	4.8	Added to welding rod

Shinko Actec Co., Ltd.

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Shinko Taseto Co., Ltd.

Substance	Discharge			Landfill on premises	Transportation		Major processes and purposes of use
	Atmosphere	Public water body	Soil		Sewage	Outside office	
Molybdenum and its compounds	0	0	0	0	0	1,900	Lubricant for wire drawing
Chromium and trivalent chromium compounds	0	0	0	0	0	590	Added to welding wire
Manganese and its compounds	0	0	0	0	0	330	Added to welding wire

Hanshin Yosetsu Kizai Co., Ltd.

Substance	Discharge			Landfill on premises	Transportation		Major processes and purposes of use
	Atmosphere	Public water body	Soil		Sewage	Outside office	
Manganese and its compounds	31	0	0	0	0	9,700	Flux material
Boron and its compounds	0.8	0	0	0	0	270	Flux material
Chromium and trivalent chromium compounds	0.8	0	0	0	0	120	Flux material

Kobe Welding Wire Co. Ltd.

Substance	Discharge			Landfill on premises	Transportation		Major processes and purposes of use
	Atmosphere	Public water body	Soil		Sewage	Outside office	
Inorganic cyanogen compounds (except complex salt and cyanate )	0	0	0	0	0	880	Plating
Water-soluble copper salt (except complex salt )	0	0	0	0	5.2	0	Plating

Aluminum & Copper Business

Moka Plant

Substance	Discharge			Landfill on premises	Transportation		Major processes and purposes of use
	Atmosphere	Public water body	Soil		Sewage	Outside office	
Chromium and trivalent chromium compounds	0	0	0	0	0	26,000	Surface treatment of aluminum sheet
Manganese and its compounds	0	0	0	0	0	18,000	Added to molten aluminum
Toluene	4,300	0	0	0	0	840	Contained in paint

Chofu Works

Substance	Discharge			Landfill on premises	Transportation		Major processes and purposes of use
	Atmosphere	Public water body	Soil		Sewage	Outside office	
Hydrogen fluoride and its water-soluble salt	0	6,300	0	0	0	2,200	Pickling
1,3,5-trimethylbenzene	1,200	0	0	0	0	0	Washing
Xylene	1,000	0	0	0	0	0	Contained in kerosene and paint

Daian Plant

Substance	Discharge			Landfill on premises	Transportation		Major processes and purposes of use
	Atmosphere	Public water body	Soil		Sewage	Outside office	
Poly(oxyethylene) alkyl ether	0	0	0	0	0	9,300	Testing
Dichloromethane (methylene chloride )	3,200	0	0	0	0	200	Washing of aluminum fabricated products
Phenol	0	0	0	0	0	2,200	Binder for casting sand

Sun Aluminium Industries, Ltd.

Substance	Discharge			Landfill on premises	Transportation		Major processes and purposes of use
	Atmosphere	Public water body	Soil		Sewage	Outside office	
Toluene	69,000	0	0	0	0	2,000	Paint, coating agent, adhesive
Xylene	5,200	0	0	0	0	130	Paint, coating agent, adhesive
Ethylbenzene	940	0	0	0	0	13	Paint, coating agent, adhesive

Shinko Metal Products Co., Ltd.

Substance	Discharge			Landfill on premises	Transportation		Major processes and purposes of use
	Atmosphere	Public water body	Soil		Sewage	Outside office	
Dichloromethane (methylene chloride )	4,400	0	0	0	0	0	Degreasing
Toluene	490	0	0	0	0	0	Coating

Shinko Aluminum Wire Co., Ltd.

Substance	Discharge			Landfill on premises	Transportation		Major processes and purposes of use
	Atmosphere	Public water body	Soil		Sewage	Outside office	
Trichloroethylene	8,100	0	0	0	0	6,200	Washing

Shinko-North Co., Ltd.

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Shinko Fab Tech, Ltd.

Substance	Discharge			Landfill on premises	Transportation		Major processes and purposes of use
	Atmosphere	Public water body	Soil		Sewage	Outside office	
Xylene	780	0	0	0	0	0	Washing
Manganese and its compounds	0	0	0	0	0	650	Aluminum alloy additive
Chromium and trivalent chromium compounds	0	0	0	0	0	210	Aluminum alloy additive

Shinko Leadmikk Co., Ltd.

Substance	Discharge			Landfill on premises	Transportation		Major processes and purposes of use
	Atmosphere	Public water body	Soil		Sewage	Outside office	
Dichloromethane (methylene chloride )	2,600	0	0	0	0	75	Degreasing
Nickel compounds	0	0	0	0	93	560	Plating
Inorganic cyanogen compounds (except complex salt and cyanate )	0	0	0	0	9.0	340	Plating

Niko-Aluminium Industries, Ltd.

Substance	Discharge			Landfill on premises	Transportation		Major processes and purposes of use
	Atmosphere	Public water body	Soil		Sewage	Outside office	
Chromium and trivalent chromium compounds	0	0	0	0	0	4,700	Coating
Xylene	360	0	0	0	0	220	Coating
Ethylbenzene	180	0	0	0	0	95	Coating

Kobelco & Materials Copper Tube, Ltd.

Substance	Discharge			Landfill on premises	Transportation		Major processes and purposes of use
	Atmosphere	Public water body	Soil		Sewage	Outside office	
Xylene	500	0	0	0	0	400	Coating
Toluene	2,100	0	0	0	0	0	Coating

Machinery Business

Harima Plant (Standard Compressor Plant)

Substance	Discharge			Landfill on premises	Transportation		Major processes and purposes of use
	Atmosphere	Public water body	Soil		Sewage	Outside office	
Ethylbenzene	1,800	0	0	0	0	0	Coating
Xylene	2,000	0	0	0	0	0	Coating

Shinko Engineering Co., Ltd.

Substance	Discharge			Landfill on premises	Transportation		Major processes and purposes of use
	Atmosphere	Public water body	Soil		Sewage	Outside office	
Toluene	2,500	0	0	0	0	970	Coating
Xylene	180	0	0	0	0	1,400	Coating
Ethylbenzene	38	0	0	0	0	810	Coating

Head Office

Kobe Corporate Research Laboratories

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Kobelco Research Institute, Inc. (Sputtering Target Division)

Substance	Discharge			Landfill on premises	Transportation		Major processes and purposes of use
	Atmosphere	Public water body	Soil		Sewage	Outside office	
Silver and its water-soluble compounds	0	0	0	0	0	49	Dissolving material
Nickel	0	0	0	0	0	10	Dissolving material
Chromium and trivalent chromium compounds	0	0	0	0	0	8.0	Dissolving material

Kobelco Construction Machinery Co., Ltd. (Hiroshima Factory)

Substance	Discharge			Landfill on premises	Transportation		Major processes and purposes of use
	Atmosphere	Public water body	Soil		Sewage	Outside office	
Xylene	74,000	0	0	0	0	26,000	Coating
Ethylbenzene	19,000	0	0	0	0	3,000	Coating
Toluene	12,000	0	0	0	0	8,000	Coating

Kobelco Construction Machinery Co., Ltd. (Ogaki Factory)

Substance	Discharge			Landfill on premises	Transportation		Major processes and purposes of use
	Atmosphere	Public water body	Soil		Sewage	Outside office	
Xylene	20,000	0	0	0	0	6,300	Coating
Toluene	5,700	0	0	0	0	1,900	Coating
Ethylbenzene	5,000	0	0	0	0	750	Coating

Kobelco Cranes Co., Ltd.

Substance	Discharge			Landfill on premises	Transportation		Major processes and purposes of use
	Atmosphere	Public water body	Soil		Sewage	Outside office	
Xylene	84,000	0	0	0	0	0	Coating
Toluene	49,000	0	0	0	0	0	Coating
Ethylbenzene	7,400	0	0	0	0	0	Coating

Japan Superconductor Technology Inc.

Substance	Discharge			Landfill on premises	Transportation		Major processes and purposes of use
	Atmosphere	Public water body	Soil		Sewage	Outside office	
Dichloromethane (methylene chloride )	6,100	0	0	0	0	800	Degreaser
Tetrahydromethylphthalic anhydride	65	0	0	0	0	2,100	Impregnation
Bisphenol A epoxy resin (liquid form only)	0	0	0	0	0	2,200	Impregnation

Kobelco Eco-Solutions Co., Ltd. (Harima Plant)

Substance	Discharge			Landfill on premises	Transportation		Major processes and purposes of use
	Atmosphere	Public water body	Soil		Sewage	Outside office	
Manganese and its compounds	8.2	0	0	0	0	1,100	Welding

Kobelco Eco-Solutions Co., Ltd. (Technical Research Laboratory)

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Shinko Industrial Co., Ltd.

Substance	Discharge			Landfill on premises	Transportation		Major processes and purposes of use
	Atmosphere	Public water body	Soil		Sewage	Outside office	
Toluene	15,000	0	0	0	0	950	Coating
Xylene	14,000	0	0	0	0	900	Coating
Ethylbenzene	11,000	0	0	0	0	670	Coating