

Table 4.1: Summary of mercury releases

C	Sub-C	Source category	Calculated Hg output, kg/y					
			Air	Water	Land	By-products and impurities	General waste	Sector specific treatment / disposal
5.1		Extraction and use of fuels/energy sources						
	5.1.1	Coal combustion in power plants	45.34	-	15.11	-	-	-
	5.1.2.1	Coal combustion in coal fired industrial boilers	2.66	-	-	-	-	-
	5.1.3	Mineral oils – extraction, refining and use	6.39	-	-	-	-	-
	5.1.6	Biomass fired power and heat production	27.92	-	9.06	-	-	-
5.3		Production of other minerals and materials with mercury impurities*1						
	5.3.3	Production of lime and light weight aggregates	0.01	-	-	-	-	-
5.5		Consumer products with intentional use of mercury						
	5.5.1	Thermometers with mercury	2.43	7.28	-	-	14.55	-
	5.5.2	Electrical switches and relays with mercury	16.90	-	16.90	-	135.18	-
	5.5.3	Light sources with mercury	1.74	-	-	-	33.11	-
	5.5.4	Batteries with mercury	-	-	-	-	0.08	0.01
	5.5.5	Polyurethane with mercury catalysts	3.75	1.88	-	-	31.92	-
	5.5.9	Cosmetics and related products with mercury						
5.6		Other intentional product/process uses*2						
	5.6.1	Dental mercury-amalgam fillings	1.32	30.45	5.30	3.97	13.24	13.24
	5.6.2	Manometers and gauges with mercury	0.90	2.69	-	-	5.38	-
	5.6.3	Laboratory chemicals and equipment with mercury	0.74	13.87	-	-	15.34	22.36
	5.6.4	Mercury metal use in religious rituals and folklore medicine						
	5.6.5	Miscellaneous product uses, mercury metal use, and other sources	0.18	0.35	0.35			
5.7		Production of recycled metals (“secondary metal production)						
	5.7.2	Production of recycled ferrous metals (iron and steel)	0.04	-	0.04	-	0.04	-
5.8		Waste incineration						
	5.8.2	Incineration of hazardous waste						
	5.8.3	Incineration of medical waste	24.19	-	-	-	-	-
	5.8.5	Informal waste burning	30.58	-	-	-	-	-
5.9		Waste deposition/landfilling and waste water treatment*3*4						
	5.9.1	Controlled landfills/deposits	23.03	0.23	-	-	-	-
	5.9.4	Informal dumping of general waste	2.49	2.49	19.89			
	5.9.5	Waste water system/treatment	-	161.79	-	-	42.69	20.22
5.10		Crematoria and cemeteries						
	5.10.1	Crematoria/cremation	9.99	-	-	-	-	-
	5.10.2	Cemeteries	-	-	13.30	-	-	-
		TOTAL*3*4	200.6	59.2	60.1	4.0	291.5	55.8

Notes:

*1 Includes production of cement, pulp and paper, lime and light weight aggregates.

*2 Includes dental amalgam fillings, manometers and gauges, lab chemicals and equipment, Hg use in religious rituals and folklore medicine, and miscellaneous product uses.

*3 The estimated quantities include mercury in products which has also been accounted for under each product category. To avoid double counting, the release to land from informal dumping of general waste has been subtracted automatically in the TOTALS.

*4 The estimated input and release to water include mercury amounts which have also been accounted for under each source category. To avoid double counting, releases to water from waste water system/treatment have been subtracted automatically in the TOTALS.