8 Environmentally aware Production Activities

In the control of chemicals, by the end of fiscal year 2005 we succeeded in completely eliminating dichloromethane, trichloroethylene and dioxins, in keeping with our mid-term plan.
We will striving to reduce hazardous substances right from the design stage through implementation of LCA and green purchasing.

Control of Chemicals

IBIDEN uses a diverse array of some 500 chemical substances, chiefly in plating processes. A lack of appropriate control could lead to pollution of the environment or exposure of humans to hazards.
Accordingly, to prevent the risks that chemicals can elicit, IBIDEN has specified chemicals that are targeted for reduction or elimination.

Mid-term Plan (FY 2003 Through FY 2007)
- Complete elimination of dichloromethane by the end of FY 2005
- Complete elimination of trichloroethylene by the end of FY 2005
- Complete elimination of dioxins by the end of FY 2005
- Complete elimination of lead by the end of FY 2007

FY 2006 Target
- Activities to completely eliminate lead by the end of FY 2005

Performance: In progress

Evaluation: ○

FY 2007 Targets
- Complete elimination of lead

Disclosure of Information on Use of Chemicals

At IBIDEN, we believe that the company should be completely open to scrutiny with respect to the environment. We will continue to make disclosure regarding the discharge and transfer of chemicals used in our manufacturing processes, as well as our efforts and in their connection and the result obtained.

PRTR Compliance

Control of the chemical substances contained raw materials, secondary materials, and the like involved conducting what are termed "environmental-impact assessments" based on material safety data sheets (MSDSs) and delivered-material composition charts provided by the supplier.
We also conducted a group-wide survey of the amounts of chemicals covered by PRTR legislation that were discharged or transferred in fiscal year 2006. This found that there are 18 chemicals subject to mandatory reporting to the prefectures of Gifu and Aichi (two specially designated type 1 chemicals and 16 type 1 chemicals), and that the total amounts of these discharged or transferred was approximately 300 tons per year.

●Discharged and Transferred Amounts of PRTR-listed Chemicals in Fiscal Year 2006

18 chemicals subject to mandatory reporting to the prefectures of Gifu and Aichi
Specially designated type 1 chemicals: 2
Type 1 chemicals: 16
Total amounts discharged or transferred: approx. 300 t/year

ID No.	Regulated substance	Quantity of regulated substance used (kg/year)	Amount discharged (to air, public waterway, soil, or in-house landfill)				Discharged to air		Total amount discharged and transferred (kg/year)
			Discharged to public waterway or river (kg/year)	Discharged to soil on facility grounds (kg/year)	Buried in landfill on facility grounds (kg/year)	Transferred to sewer (kg/year)	Transferred off-site as waste material (kg/year)	Transferred to sewerage (kg/year)	
16	2-Aminoethanol	23,937	647	0	0	0	22,070	104	22,821
43	Ethylene glycol	4,202	0	610	0	0	0	3,592	4,202
46	Ethylenediamine	1,555	1	0	0	0	0	0	1
61	#EPSILON#-Caprolactam	1,375	0	0	0	0	0	14	14
63	Xylene	10	10	0	0	0	0	0	10
64	Silver and its water-soluble compounds	3	0	0	0	0	0	0	0
108	Inorganic cyanide compounds	149	0	0	0	0	0	149	149
112	Carbon Tetrachloride	2	2	0	0	0	0	0	2
207	Copper salts (water-soluble, except complex salts)	698,280	0	427	0	0	1,020	56,539	57,986
227	Toluene	3,456	760	0	0	0	0	2,696	3,456
230	Lead and its compounds	1,227	0	0	0	0	0	12	12
232	Nickel compounds	5,842	0	2	0	0	0	3,582	3,584
266	Phenol	838,113	4	0	0	0	0	0	4
299	Benzene	241	0	0	0	0	0	241	241
304	Boron and its compounds	8,539	0	5	0	0	52	8,482	8,539
307	Poly (oxyethylene) = alkyl ether	356	4	0	0	0	0	352	356
310	Formaldehyde	601,763	0	92	0	0	0	173,501	173,593
311	Manganese and its compounds	26,807	0	8	0	0	6	26,792	26,806

【Surveyed】IBIDEN and IBIDEN Group companies covered by IBIDEN's environmental-management system　【Survey period】April 2006 through March 2007