

Control of Chemical Substances

Basic Approach

Approach

The TOPPAN Group has formulated the following basic policies on chemical substance control.

We refrain from the use of hazardous chemical substances as a basic rule. We may, however, resort to the use of hazardous substances when their use is legally permitted and no alternate technologies are available. Even when these latter conditions apply, we properly control the substances and take steps to reduce their usage or replace them with substitutes.

Every chemical substance used within our business operations is monitored. We seek to eliminate obstacles to environmental conservation in advance by constantly improving the substance control methods we have voluntarily set as a business operator.

Activities

Activity results, performance data

We strive to reduce the use of chemical substances in order to mitigate their impacts on the environment. By determining substances and applications for reduction on a priority basis, we have been reducing their use and replacing them with safer substitutes. A set of Standards for the Management of Chemical Components of Raw Materials has been established to govern the substances and materials we purchase. These standards list chemical substances whose usage is banned or restricted as raw materials in conformance with international and Japanese laws and regulations on chemicals. The list is regularly reviewed to assure chemical management, and every supplier is asked to control the substances listed.

Toppan Inc. has also listed particularly hazardous chemicals as “high-risk chemicals” sorted out from the chemical substances designated under the Pollutant Release and Transfer Register (PRTR) law of Japan. The Company prohibits the use of products that contain listed chemicals as a basic rule. This list is reviewed every year. Group production sites have been properly controlling chemical substances in parallel, according to their management procedures.

For VOC emissions into the atmosphere, adequate treatment is applied before release to ensure that the emission volumes and concentrations are controlled at proper levels. Increasing efforts are also made to reduce the use of VOCs.

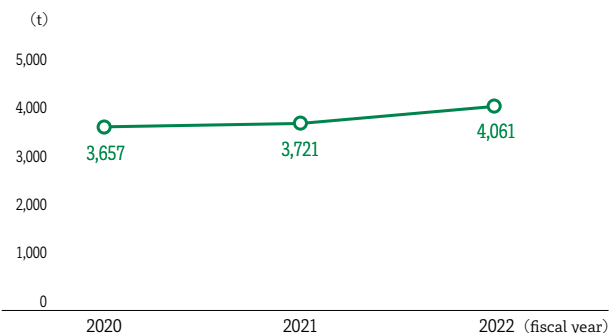
 More details on the TOPPAN Group Standards for the Management of Chemical Components of Raw Materials (ver. 4.8) >

<https://www.holdings.toppan.com/assets/en/pdf/about-us/our-corporate-approach/chemical-components-of-raw-materials-v4.8en.pdf>

Associated Data

Activity results, performance data

VOC Emissions into the Atmosphere (Domestic sites, including Group company sites) ✔



Chemical Substances Designated under the PRTR Law of Japan (Domestic sites, including Group company sites)

(Unit: kg/year)

PRTR No.	Chemical Substance	Handled	Released (1 + 2 + 3)	Released			Total Transferred
				1. Atmosphere	2. Water	3. Soil	
20	2-aminoethanol	62,863	653	0	653	0	26,879
44	Indium and its compounds	1,387	0	0	0	0	2
53	Ethylbenzene	12,000	206	206	0	0	441
71	Ferric chloride	2,121,289	0	0	0	0	2,074,205
76	Epsilon-caprolactam	2,108	0	0	0	0	272
80	Xylene	46,246	378	378	0	0	447
87	Chromium and chromium (III) compounds	20,742	9	0	9	0	14,084
88	Chromium (VI) compounds	11,621	0	0	0	0	1,356
151	1,3-dioxolane	18,785	188	188	0	0	3,103
213	N,N-dimethylacetamide	3,773	340	340	0	0	604
243	Dioxins (mg-TEQ)	1,095	11	11	0	0	1,084
245	Thiourea	2,100	2	0	2	0	2,098
272	Copper salts (water-soluble, except complex salts)	312,935	41	0	40	0	94,410
296	1,2,4-trimethylbenzene	80,370	2,766	2,766	0	0	6,636
297	1,3,5-trimethylbenzene	9,019	553	553	0	0	1,519
300	Toluene	630,503	40,267	40,267	0	0	57,793
308	Nickel	11,248	0	0	0	0	0
309	Nickel compounds	6,711	4	0	4	0	3,943
374	Hydrogen fluoride and its water-soluble salts	7,341	350	10	341	0	5,503
392	n-Hexane	1,328	13	13	0	0	219
411	Formaldehyde	12,128	23	23	0	0	1,646
412	Manganese and its compounds	2,964	173	0	173	0	2,042
438	Methylnaphthalene	14,281	71	71	0	0	0
448	Methylenebis (4,1-phenylene) diisocyanate	35,694	0	0	0	0	0
	Total	3,427,435	46,040	44,816	1,224	0	2,297,201

Notes

- Period covered: April 1, 2022–March 31, 2023
- Operational sites covered: Sites that handle more than 1.0 ton of Class I designated chemical substances per year (or specified Class I designated chemical substances in excess of 0.5 tons per year)
- The total transfer is the sum of transfers into waste and sewage systems.