Control of Chemical Substances

Basic Approach

Approach

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

Toppan refrains from the use of hazardous chemical substances as a basic rule. The Group 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, the Group properly controls the substances and endeavors to reduce their usage and replace them with substitutes.

Toppan monitors every chemical substance used within the Group's business operations. The Toppan Group seeks to eliminate obstacles to environmental conservation in advance by being proactive in constantly improving substance control methods as a business operator.

Activities

Activity results, performance data

The Toppan Group strives to reduce the use of chemical substances in order to mitigate the impact of these substances on the environment. The Group has been continuously reducing the use of chemical substances designated under the Pollutant Release and Transfer Register (PRTR) law of Japan and introducing safer substitutes by setting priorities in terms of both the type and range of application. Group production sites have also been properly controlling chemical substances based on established management procedures.

The Toppan Group has formulated a set of Standards for the Management of Chemical Components of Raw Materials governing the substances and materials the Group purchases. Based on Japanese and international laws and regulations on chemical substances, these standards list substances that are banned or restricted with regard to use as raw materials. Toppan regularly reviews the list to assure chemical control and asks every supplier to control the chemical substances listed.

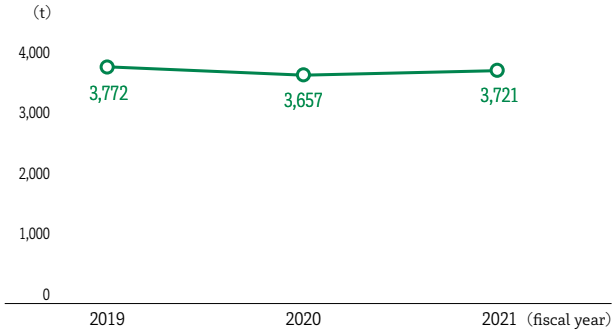
For VOC emissions into the atmosphere, the Group applies adequate treatment before discharge to ensure that the emission volumes and concentrations are controlled at proper levels. Increasing efforts are also made to reduce the use of VOCs.

More details on the Toppan Group Standards for the Management of Chemical Components of Raw Materials (ver. 4.8)
https://www.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)				Total Transferred
				1. Atmosphere	2. Water	3. Soil	
20	2-aminoethanol	39,129	752	0	752	0	12,712
44	Indium and its compounds	1,532	0	0	0	0	0
53	Ethylbenzene	10,199	698	698	0	0	320
59	Ethylenediamine	1,619	0	0	0	0	1,619
71	Ferric chloride	3,175,876	2	0	2	0	3,118,481
76	Epsilon-caprolactam	2,254	0	0	0	0	284
80	Xylene	46,561	886	886	0	0	324
87	Chromium and chromium (III) compounds	22,070	10	0	10	0	14,141
88	Chromium (VI) compounds	13,064	0	0	0	0	1,264
151	1,3-dioxolane	24,395	244	244	0	0	4,030
213	N,N-dimethylacetamide	3,126	234	234	0	0	500
243	Dioxins	770	7	7	0	0	763
245	Thiourea	1,932	2	0	2	0	1,929
272	Copper salts (water-soluble, except complex salts)	383,192	224	0	224	0	197,080
296	1,2,4-trimethylbenzene	97,052	2,839	2,839	0	0	7,556
297	1,3,5-trimethylbenzene	11,546	493	493	0	0	1,691
300	Toluene	837,226	50,958	50,958	0	0	83,459
308	Nickel	29,946	0	0	0	0	0
309	Nickel compounds	10,561	5	0	5	0	8,270
374	Hydrogen fluoride and its water-soluble salts	15,588	354	9	345	0	13,804
392	n-Hexane	2,050	21	21	0	0	339
411	Formaldehyde	7,965	56	56	0	0	1,027
412	Manganese and its compounds	2,639	135	0	135	0	1,768
438	Methylnaphthalene	14,055	70	70	0	0	0
448	Methylenebis (4,1-phenylene) diisocyanate	37,825	0	0	0	0	0
	Total	4,791,402	57,984	56,509	1,475	0	3,470,597

Notes

- Period covered: April 1, 2021–March 31, 2022
- 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.

*Every indicator assured by an independent assurance provider is marked with an assurance stamp ☑.