

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

Policy

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 reduced 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.


Toppan Group Standards for the Management of Chemical Components of Raw Materials (ver. 4.7)
<https://www.toppan.com/assets/en/pdf/about-us/our-corporate-approach/chemical-components-of-raw-materials-v4.7en.pdf>

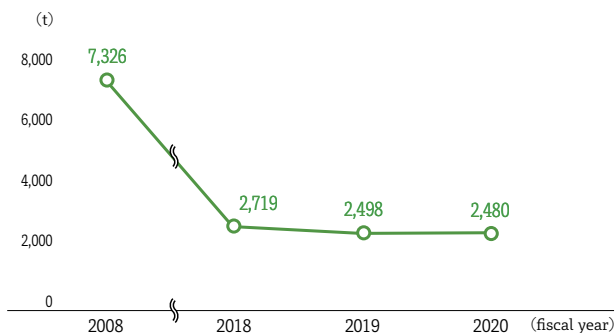
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Every indicator assured by an independent assurance provider is marked with an assurance stamp .

VOC Emissions into the Atmosphere

Activity results,
performance data

VOC Emissions into the Atmosphere (subject to the medium-term environmental targets in Japan) 



PRTR Data

Activity results,
performance data

Chemical Substances Designated under the PRTR law of Japan (subject to the medium-term environmental targets in Japan)

(Unit: kg/year)

PRTR No.	Chemical Substance	Handled	Released			Total Transferred	
			1. Atmosphere	2. Water	3. Soil		
20	2-aminoethanol	43,979	734	0	734	0	19,841
44	Indium and its compounds	1,197	0	0	0	0	2
53	Ethylbenzene	8,196	518	518	0	0	217
59	Ethylenediamine	1,124	0	0	0	0	1,124
71	Ferric chloride	2,618,944	0	0	0	0	2,517,154
76	Epsilon-caprolactam	1,828	0	0	0	0	217
80	Xylene	46,935	716	716	0	0	220
87	Chromium and chromium (III) compounds	20,128	9	0	9	0	12,395
88	Chromium (VI) compounds	11,348	0	0	0	0	726
151	1,3-dioxolane	31,841	318	318	0	0	7,698
213	N,N-dimethylacetamide	2,681	104	104	0	0	429
243	Dioxins	967	6	6	0	0	961
245	Thiourea	1,797	2	0	2	0	1,794
272	Copper salts (water-soluble, except complex salts)	378,726	124	0	124	0	185,571
296	1,2,4-trimethylbenzene	108,229	4,162	4,162	0	0	10,012
297	1,3,5-trimethylbenzene	13,814	465	465	0	0	2,191
300	Toluene	1,058,353	76,083	76,083	0	0	84,972
308	Nickel	24,965	0	0	0	0	0
309	Nickel compounds	10,832	4	0	4	0	8,797
374	Hydrogen fluoride and its water-soluble salts	11,737	381	10	371	0	9,771
392	n-Hexan	1,437	14	14	0	0	347
401	1,2,4-benzenetricarboxylic 1,2-anhydride	2,111	0	0	0	0	169
411	Formaldehyde	7,622	54	54	0	0	825
412	Manganese and its compounds	2,664	121	0	121	0	1,868
438	Methylnaphthalene	12,796	64	64	0	0	0
448	Methylenebis (4,1-phenylene) diisocyanate	38,972	0	0	0	0	0
	Total	4,462,254	83,875	82,510	1,365	0	2,866,338

Notes

- Period covered: April 1, 2020–March 31, 2021
- 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.