

# Pollution Control

## Basic Approach

Approach

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

Toppan positions pollution control as an important element of management. The Group places utmost priority on environmental conservation activities in its efforts to prevent pollution. In the event that Toppan causes environmental pollution of any form, the Group will immediately publish the

incident, disclose information, and work relentlessly to address the case while taking necessary actions to reliably prevent recurrences. Toppan will also implement recurrence-prevention measures for similar operations throughout the Group. Proactive environmental conservation activities will enable Toppan to detect any signs of pollution and swiftly correct the problem at its source.

## Approach to Environmental Compliance

### ■ Preventing Pollution

The Eco-protection Promotion Committee at each Group site in Japan sets in-house control standards that are more stringent than the applicable regulatory standards. The Toppan Group works to reduce environmental burden and prevent pollution by complying with these in-house standards.

To prevent atmospheric pollution, the Group controls boilers and other plant facilities responsible for air pollutants by managing operations under appropriate combustion conditions. The Group enhances the efficiency of effluent-gas treatment in plant facilities subject to requirements under the Air Pollution Control Act by reusing recovered solvents and controlling combustion facilities appropriately.

To prevent water pollution, the Group has installed wastewater treatment facilities designed to correspond to

specific water consumption and pollutant conditions at individual sites. Wastewater recycling systems have also been installed at Electronics plants that discharge effluents in significant amounts. By recovering and reusing wastewater via these systems, the plants have been working to reduce the levels of water consumption and effluent discharge.

The Toppan Group also checks plant facilities subject to the Water Pollution Control Law in compliance with the regulatory standards for structures. The Group will monitor every facility, including those not subject to the law, to prevent soil and groundwater pollution caused by the leakage of chemicals and other liquids. Any equipment or components with undue wear will be replaced.

### ■ Handling Inquiries and Complaints

The Toppan Group receives environmental inquiries and complaints via "Inquiries," a contact window for persons seeking information on corporate activities, on the Toppan corporate website. The Ecology Center receives reports on these inquiries and complaints from the Public Relations Division and responds to them as the organization overseeing environmental conservation activities across the Group.

For inquiries on Toppan's activities  
<https://www.toppan.com/en/contact-us/privacy-corporate.html>

## ■ Fiscal 2020 Results

Toppan has used the Group's in-house environmental database for operational sites across Japan to identify any risk of exceeding the limits stipulated under laws, ordinances, agreements, and other applicable regulations. Preventive measures against unduly high risks have been taken to ensure that none of the regulatory limits are breached.

Despite these steps, one production site recorded one case of excessive odor, one site recorded one case of excessive water contamination by BOD, and one site recorded one case of excessive water contamination by n-Hexane, relative to standards set under laws, ordinances, agreements, and other applicable regulations, in fiscal 2020. The Toppan Group took immediate corrective measures for each of the three cases above, including steps to inspect plant facilities and revise the methods for facility control. Since implementing these corrective measures, the Group has standardized newly adopted control procedures and taken other actions to reliably prevent recurrences. Meanwhile, Toppan has identified no

problems with the levels of water consumption and effluent discharge.

As a preventive action against environmental pollution, the Group also reviews drills for coping with potential emergencies and accidents during production operations whenever necessary.

No communities nearby Toppan plants filed complaints in fiscal 2020.

Toppan will continue enhancing the quality of its environmental management through earnest dialogue with residents in surrounding communities.

Fiscal 2020	Excessive Levels Relative to Applicable Legal Standards	Complaints
Cases	3 (2 cases involving water contaminant [BOD, 1; n-Hexane, 1]; 1 case involving odor)	0

## Remediating Soil and Groundwater Pollution

Activity results,  
performance data

### Purifying Soil and Groundwater Pollution

Operational Site	Detail	Current Progress
Itabashi Plant (Itabashi, Tokyo)	Groundwater pollution by hexavalent chromium and toluene	Continuously monitored
Niigata Plant (Shibata, Niigata)	Soil pollution by fluorine and fluorine compounds	Continuously monitored

### Remediating Soil Pollution for Redevelopment in Conformance with Applicable Regulations

The Soil Contamination Countermeasures Act of Japan requires remediation work or other countermeasures in the event that a soil investigation detects soil contamination at a site during construction or demolition work of a certain scale (including soil contamination by natural sources in the environment). Site

reconstruction projects are occasionally subject to these legal demands. The Toppan Group has therefore conducted soil investigations in accordance with the act and taken necessary countermeasures when soil contamination has been detected at a Group site.

Operational Site	Chemical Substances Subject to Remediation	Remediation Measures	Current Progress
Kawaguchi Plant (Kawaguchi, Saitama)	Lead and lead compounds	Excavation and removal	Remediation work, phase 1 completed (Phase 2 work to be completed in September 2021.)

## Organizing Education

Training,  
education

Toppan arranges three types of training programs on pollution control: general education for every employee at individual Group sites; specific operational training for every employee engaged in operations that cause or could potentially cause significant impacts on the environment; and emergency drills to prevent the spread of damage in the event of a potential emergency.