

Chemical Substance Management

Policy and Basic Approach

Environmental Policy

Our Group has established the Environmental Policy as a policy related to environmental issues pertaining to our Group (including chemical substance management). Our Group's Environmental Policy is described on the following page.

[➤ Environmental Management](#)

Systems (Governance)

The systems for supervision and management of environmental issues pertaining to our Group (including chemical substance management) are described on the following page.

[➤ Environmental Management](#)

Risk Management

The identification, assessment, and management of risks and opportunities related to environmental issues pertaining to our Group (including chemical substance management) are carried out in accordance with the risk management structure and risk management processes described on the following page.

[➤ Risk Management](#)

Key Initiatives

Management of chemical substances throughout product life cycles

The targets for 2020 agreed on at the WSSD call for the worldwide and comprehensive management of chemical substances throughout the product life cycle, from development to manufacturing, use, and disposal in order to minimize the significant adverse effects on human health and the environment caused by the manufacture and use of chemical substances. Since then, the laws and regulations in each country have become stricter, and our Group is taking action to comply with laws and regulations.

Aiming to achieve the SDGs in 2030, the government of each country is taking action proactively. Our Group (each of our plants and research laboratories worldwide) is working on the SDGs through the management of chemical substances carried out as part of our Responsible Care activities.

In terms of its management of chemical substances, our Group has a system in place for studying and reviewing chemical substance-related laws and regulations in Japan and throughout the world from the product development phase onward. We manage the chemical substances contained in products in order to comply with the laws of the countries where we operate and to minimize environmental impacts throughout product life cycles.

In order to minimize the impact on the environment and obtain a high level of trust in the industry, we are promoting stronger risk assessment and management systems through the following measures.

1. Adherence to international standards related to chemical substance management

[Compliance with Japanese laws and regulations]

We report on new chemical substances under the Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture and Industrial Safety and Health Act, and nominate people in charge of handling and perform record management according to the Poisonous and Deleterious Substances Control Act. In 2024, new substances were added under the revised Industrial Safety and Health Act, and we are taking necessary actions to ensure compliance, including updating the SDS.

[Keeping overseas regulatory and inventory information up to date]

We are managing chemical substances based on the latest information on both our inventory and chemical substance regulations in each country, keeping in mind the global deployment of our products. Dedicated legal teams conduct monitoring and rapid handling of the latest trends such as in the REACH regulations (EU), TSCA (the US), and K-REACH (South Korea). We utilize a Chemical Substance Management System to minimize the risks during product development and sales from a global perspective.

2. Risk management initiatives for chemical substances

[(1) Inspection planning stage (gate 1/approval by manager of adoption department)]

When assessing new raw materials, the research manager obtains the latest SDS from the raw material manufacturer and confirms they do not contain concerning or prohibited substances. After approval, a sample is obtained for assessment.

[(2) Design & development stage (gate 2/consensus with New Materials Adoption Screening Committee)]

A survey of the supply stability including logistics, price, and BCP is conducted by the Global Procurement Division, and we collect documents such as new chemical substance deployment status (Japan and countries where export is expected) and certificates of non-use of prohibited substances. A risk assessment is conducted by the “New Material Adoption Screening Committee”, and the usability is judged comprehensively.

[(3) Production preparation stage (gate 3/request for new raw material adoption and decision by the plant manager)]

Prepare the final documents such as procurement specifications and certificate of non-use of prohibited substances, and circulate request for new raw material adoption for final confirmation of health and environmental safety during manufacturing by stakeholders.

[(4) Steady production stage]

Each business division continually gathers updated information about legal changes and materials of concern lists through cooperation between the Quality Assurance Promotion Department and Environment and Safety Promotion Department. Confirm and update the contents of the product SDS and issue to customers.

| | Manufacturer | Research Dept. | Business Div. | Procurement Dept. | Environment and Safety Promotion Dept. | Review |
|----------------------------|--------------|----------------|---------------|-------------------|--|--|
| (1) Inspection planning | ● | ● | | | | Obtain SDS. Confirm substances of concern and prohibited substances. |
| (2) Design & development | ● | ● | ● | ● | ● | Confirm chemical regulations. Confirm supply stability and risk. |
| (3) Production preparation | ● | ● | ● | ● | ● | Finalize procurement specifications. Register raw material. Confirm manufacturing safety. |
| (4) Steady production | ● | ● | ● | ● | ● | Continuously confirm legal information. Register new export countries and handle issuance of SDS. |

3. Issuance and provision of SDS by introduction of cutting-edge chemical substance management system

A Chemical Substance Management System has been introduced to perform efficient issuance and provision of product safety data sheets (SDS) for domestic and international legal information disclosure and for voluntary information disclosure.

We have established a system to enable the creation of SDS in compliance with international standards (GHS), detailing the hazards and legal information of chemical substances, and to provide them in multiple languages to customers and business partners in 46 countries via an online platform.

*1 SDS: Acronym for Safety Data Sheet. This sheet contains the safety information regarding chemical substances, and is attached to product shipments to other businesses.

*2 GHS: Acronym for the Globally Harmonized System of Classification and Labelling of Chemicals.

*3. ExESS: A system for producing and issuing SDS multilingually. Introduced in 2020.

● **Countries and territories for which we provide SDSs**

(number of SDSs of which the latest version can be provided as of April 1, 2025)

| | | | | | | | | | |
|----------------|---|-------------|---|----------------|---|----------|--|---------|---|
| USA |  | Austria |  | Thailand |  | Brazil |  | Morocco |  |
| Ireland |  | Netherlands |  | Czech Republic |  | France |  | Russia |  |
| UAE |  | Canada |  | Denmark |  | Vietnam |  | Korea |  |
| United Kingdom |  | Costa Rica |  | Germany |  | Belgium |  | Taiwan |  |
| Israel |  | Singapore |  | Turkey |  | Poland |  | China |  |
| Italy |  | Switzerland |  | New Zealand |  | Portugal |  | Japan |  |
| India |  | Sweden |  | Norway |  | Malta |  | | |
| Indonesia |  | Spain |  | Hungary |  | Malaysia |  | | |
| Uruguay |  | Slovakia |  | Philippines |  | Myanmar |  | | |
| Australia |  | Slovenia |  | Finland |  | Mexico |  | | |

* Countries and territories for which we provide SDSs: 46 (Asia: 12, Europe: 23, North America: 3, Latin America: 3, Oceania: 2, Middle East: 2, Africa: 1)

4. Promotion of integrated chemical substance management activities through entire product life cycle

In order to perform cross-organization integrated chemical substance management, departments such as research, sales, quality assurance, and procurement participate in regular meetings for problem sharing and continuous improvement.

5. Educational program related to chemical substance management and laws and regulations

We hold educational programs for all employees with the aims of increasing awareness and improving skills among employees and business partners.

We conduct educational activities using e-learning and internal documents, hold internal web seminars, and hold seminars that invite external speakers.