



Responsible Care Management

Progress in Fulfilling Eco-First Commitments

Sumitomo Chemical has participated in the Eco-First Program of Japan's Ministry of the Environment since November 2008. As a leading company in the chemical industry, Sumitomo Chemical is committed to fulfilling its Eco-First commitments to the Japanese Minister of the Environment while ensuring legal compliance and enhancing RC activities.



Results ● Very favorable/ ○ Generally favorable

Management of Chemical Substances and the Promotion of Risk Communication

Reviewing Safety Information on Chemicals and Conducting Risk Assessments

- Completed hazard assessments for all substances included in the initial plan, performed risk assessments for 537 products, and publicly released 41 safety summaries (<http://icca.cefic.org/>)



LRI*1 Initiatives

- Promoted research by actively participating in the LRI program implemented by the Japan Chemical Industry Association as a member of the steering committee, planning and management task force, and research promotion panel*2

Enhancing Information Disclosure and Risk Communication

- Published the *Annual Report*, *Sustainability Data Book*, the *Report on the Environment and Safety* (at all worksites), local PR newsletters, etc., made information publicly available on the official website, made school visits, accepted student interns, and engaged in dialogue with local residents

Realizing Safe and Secure Water Treatment by Developing and Applying Management Technology that Helps Reduce Environmental Impact

Considering Appropriate Water Treatment Methods and Standardizing Methods for Assessing Various Process Waste Water Expelled from Works

- In light of current operating conditions, we considered the necessary standardization and optimization of each Works' methods for assessing and treating effluent from new manufacturing processes



Using Microbiota Analysis, Microbial Immobilization, and Other Proprietary Technology to Increase the Sophistication of Activated Sludge Treatment

- We use the latest genetic analysis methods to assess the biota comprising the activated sludge, which is processed at each Works independently. We are considering tying the operating requirements for activated sludge treatment to the biota that comprises the sludge. In addition, in the area of process wastewater, which has long been used on an industrial scale, we are working on determining the relevant issues and responses with regard to activated sludge treatment using microbial immobilization technology.

Helping Create a Sustainable Society

Starting Sumika Sustainable Solutions

- We launched initiatives to internally designate products and technologies that contribute to global warming countermeasures and environmental impact reduction. A total of 44 products and technologies have been designated, with combined sales of ¥335.7 billion in fiscal 2017 (consolidated). They are projected to contribute to a collective 53 million tonne CO₂ equivalent reduction in greenhouse gases throughout their life cycles in fiscal 2020.*3



Improving Energy Efficiency

- As a result of working to improve energy efficiency, the Company-wide unit energy consumption in fiscal 2017 improved 4.0% year on year, and unit CO₂ emissions from energy improved around 20.4% compared with fiscal 2005.

Holding Dialogues with Internal and External Stakeholders

- Explained to internal and external stakeholders the importance of the Company helping to create a sustainable society and the Company's related measures, thereby deepening mutual understanding through dialogue.

*1 Long-range Research Initiative:

Long-term support for research into the effects of chemical substances on human health and the environment

*2 Research Promotion Panel:

Commissioned expert research into the development of new risk methods, assessments, and related activities; held a meeting to report on the results of the research

*3 This value represents the amount contributed to the reduction of greenhouse gases over the life cycles of designated products expected to be sold in fiscal 2020, based on the guidelines of the Japan Chemical Industry Association and the ICCA.