

Corporate Message

Expanding the Possibilities of Plastics to Contribute to Establishing a Sustainable Society

Emphasizing environmentally and socially responsible management, Sumitomo Bakelite offers products that are safe and reliable for diverse applications in wideranging fields extending from telecommunications, automotive and medical to food and construction.

The history of plastics in Japan goes back more than one hundred years and today plastics play a role in every aspect of our lives. But how will plastics be used in the future? Expect innovation triggered by technical progress together with the rapid evolution of sophisticated new needs in the market.

Sumitomo Bakelite is committed to offering life-enhancing products through high-performance manufacturing.

Editorial Policy

This report presents the Sumitomo Bakelite Group's CSR activities in fiscal 2015 clearly and succinctly to facilitate communication with all stakeholders. In March 2016 the Responsible Care Committee determined the content and the editorial policy of the report based on consideration of the principal issues concerning the Company and its stakeholders, in light of the views expressed by our stakeholders and the trends influencing society.

The 2016 edition is made available in an abridged print version focusing on the activities and messages of the Sumitomo Bakelite Group that we want stakeholders to know and a full online version containing further details including our approaches to various activities, targets, and results. Additionally, this report features Universal Design Font and was written in a simple, concise manner that is easy to understand by all.

The full online version:

- was prepared in accordance with the core option of the G4 Sustainability Reporting Guidelines, Global Reporting Initiative
- ② receives the independent assurance by KPMG AZSA Sustainability Co., Ltd. to attest to its credibility. The indicators that are assured are marked with
 ✓.

Period

In principle, the report covers fiscal 2015 (April 2015 through March 2016). Cases in which the coverage is different from this period are indicated.

Published

October 2016 (The Fiscal 2015 Report was published in September 2015 and the Fiscal 2017 Report will be published in September 2017)

Boundary

(The names of the companies are generally stated in simplified forms by omitting "Co., Ltd." and "Inc.," etc.)

In principle, this report covers Sumitomo Bakelite Co., Ltd. and its consolidated subsidiaries. Regarding environmental and occupational health and safety, the coverage is limited to the following business sites, which are mostly production sites.

Japan

Sumitomo Bakelite

Head Office and marketing offices etc.*¹, Amagasaki Plant, Kanuma Plant, Utsunomiya Plant, Shizuoka Plant, Kobe Facility Office

Akita Sumitomo Bakelite, S.B. Techno Plastics, Hokkai Taiyo Plastic, Yamaroku Kasei Industry, Kyushu Sumitomo Bakelite, S.B. Sheet Waterproof Systems, Tsutsunaka Kosan, S.B. Research Osaka Center, Seibu Jushi, Softec*1, Thanxs Trading*1

Overseas

Sumitomo Bakelite Singapore, SumiDurez Singapore, SNC Industrial Laminates, Indopherin Jaya, SBP Indonesia, Sumitomo Bakelite (Suzhou), Sumitomo Bakelite (Dongguan), Sumitomo Bakelite (Shanghai), Sumitomo Bakelite Macau, Sumitomo Bakelite (Nantong), Sumitomo Bakelite (Taiwan), Vaupell China Molding & Tooling (VCH)*², Durez Corporation, Durez Canada, Sumitomo Bakelite North America, Promerus, Sumitomo Bakelite Europe, Sumitomo Bakelite Europe (Barcelona), Vyncolit, Vaupell Northwest (VNW)*², Vaupell Northeast (VNE)*², Vaupell Midwest (VMW)*², Vaupell Rapid Solutions (VRS)*², Russell Plastics (Vcomp)*², Neopreg*³

- *1 These business sites and companies are included in the compilation of energy consumption and CO₂ emissions data.
- *2 Vaupell has been included in the compilation of data on environmental performance and occupational health and safety beginning with fiscal 2015.
- *3 These companies are not consolidated subsidiaries, and reporting only covers their data on occupational health and safety.

Note

In this report, the names of Sumitomo Bakelite Co., Ltd. and its Group companies may be stated in simplified forms by omitting "Co., Ltd." and "Inc.," etc. Quantitative data presented in this report are rounded, in principle. Therefore, in certain cases, the sum of breakdowns may not equal the total.

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Transforming Market Changes and Social Issues into Opportunities to Create New Businesses



President and Representative Director

Shigeru Hayashi

Joined Sumitomo Bakelite in 1970. Appointed General Manager of Curing Materials in the Molding Materials Business Marketing Division in 1991; General Manager of the Utsunomiya Plant in 1992; General Manager of Molding Material at the Osaka Branch in 1995; General Manager of the Molding Materials Business Marketing Division in 1997; General Manager of the Functional Molding Materials Business Marketing Division in 1999; and Director in 2000. After serving as Vice President from 2008, appointed President in 2010. Chair of the CS Promotion Committee since 2006.

Newscaster and Visiting Professor of Chiba University

Hiroko Kiba

Joined Tokyo Broadcasting System Television, Inc. (TBS) in 1987. Served as anchorwoman for various sports programming including Tetsuya Chikushi News 23 and others. Became a freelance newscaster in 1992. She was appointed as a part-time lecturer of Chiba University's Faculty of Education in 2001, then a Visiting Professor in 2013. She has served as member of various councils at the Prime Minister's Office, including the Council for Regulatory Reform and Education Rebuilding Council, and currently participates as a member on councils and commissions for eight different ministries and agencies in Japan to provide a consumer perspective. She has in-depth knowledge of environmental and energy issues.

Contributing to Society as a Pioneer of Plastics

Kiba Plastics are an essential part of our lives. As a pioneer of plastics, tell me about Sumitomo Bakelite's progress and identity.

Hayashi The history of plastics dates back to 1907 when Dr. Leo Baekeland became the first in the world to develop a plastic, phenolic resin, meaning plastics have been with us for a little over a century. He named this invention Bakelite, which is the origin of our company name. Sumitomo Bakelite was established in 1955 with the merger of Sumitomo Synthetic Resin Industries, Ltd. and Nippon Bakelite Co., Ltd., which was Japan's successor to this new technology. Since then, as a pioneer of plastics, we have striven to contribute to the growth of society using the advanced functions of plastics to underpin customers' value creation. Today, Sumitomo Bakelite has grown into a global corporation with a wideranging portfolio of businesses that includes automotive, medical, food, and housing-related products.

Using Solutions for Social Issues as a Driving Force Behind Growth

Kiba Looking back, how was Sumitomo Bakelite's operating environment in fiscal 2015?

Hayashi In fiscal 2015, China, which had been a major driver of the world economy, and other emerging countries saw a mounting economic slowdown, which caused a slump in demand for our products for smartphones, computers, automobiles and other segments, resulting in weaker sales. As a result, net sales of the Group totaled ¥207 billion, down somewhat year on year, but operating income stood at ¥12.2 billion and ordinary income was ¥12.5 billion, both higher than the previous year. Overall, results were adequate, I believe. However, net income came in at ¥5.2 billion*1, which was below our expected figure. This was attributable to extraordinary losses booked due to the impairment of unprofitable businesses and facilities as well as the streamlining of our workforce through such measures as voluntary retirement, within the structural reform process initiated from the second half of last year given Japan's sluggish economy.

Kiba Sumitomo Bakelite has created a new mid-term business plan for fiscal 2016 to fiscal 2018. What are the points of emphasis within this new plan?

Hayashi Our first point of emphasis is the smart community infrastructure-related field. This involves efforts to achieve a sustainable society by solving various issues in such fields as energy, power, and transportation. This area is expected to bring us major business opportunities, such as connecting homes, buildings and transportation systems, including vehicles, with IT networks as well as

next generation systems for maximizing photovoltaic, wind and other renewable energy usage in communities. To fully capitalize on what this field has to offer, we established the Smart Community Marketing & Development Dept. in January 2016. We are now working on developing this into a truly global organization that includes not only Japan, but also Europe and North America, and building an open innovation laboratory in an effort to establish a structure to promote smart community-related businesses. In addition to automobiles, we will also make inroads into energy, transportation, robotics and medical fields for establishing new businesses.

Kiba Smart communities are set to become more important in the future. It is really impressive how you keep taking up new challenges while modifying existing products by using your technologies developed with your materials

Hayashi The next point of emphasis is the field of aerospace. In June 2014, we acquired Vaupell, a tier-one supplier of commercial airplane interior components based in the United States. With this acquisition, we made our full-fledged entry into the field. Until then, we had marketed automotive materials in Japan, North America and Europe, but we were unable to do the same for aerospace materials because of differences in the applications and sales channels. Of course, even before the acquisition, we have had enough technical prowess to utilize existing products and modified products as new interior materials for commercial airplanes. In doing so, however, we were faced with the disadvantage of being a chemical manufacturer, as chemical products manufacturers are generally regarded as tier-two or tier-three suppliers. We therefore had to find a way to become a tier-one supplier who can talk directly to airplane manufacturers in order to make useful proposals to them.

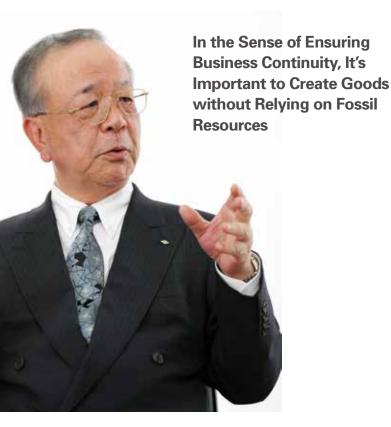
Kiba I believe your foray into the field of aircraft interior components is to promote the use of plastics as an alternative to metals, but what about their strength?

Hayashi Some parts under the hood of automobiles have already been switched over to plastics. Plastics have been adopted for these applications since around the 1950s, so there are absolutely no problems today in terms of heat resistance and durability. If the use of plastics expands in commercial aircrafts in the future, this will contribute to making "aircraft lighter," the never-ending business and environmental objective pursued by airlines.

Kiba Lighter aircraft will go a long way toward reducing CO2 emissions, not to mention the better fuel economy.

Hayashi Over the past several years commercial aircraft have become around 20% lighter. In order to shed even more weight, there will be a need to shift from steel and aluminum in favor of plastics.

^{*1} Profit in real terms that excludes actuarial differences from retirement benefit accounting



Kiba Here, plastics will likely contribute a great deal to society.

Hayashi The third point of emphasis is the medical field. In terms of medical devices, we deliver various solutions that alleviate patient burden in various fields including IVR, endoscopy, and drainage, to name a few, based on our principles of delivering customers with safety and peace of mind. In October 2015, we concluded an exclusive distribution agreement outside of Japan with Merit Medical Systems, Inc. of the United States for our new steerable microcatheter in the field of IVR. This catheter was also approved for inclusion in Japan's National Health Insurance, and now full-fledged marketing has begun both in Japan and overseas. This product represents the world's first catheter with a tip that can be steered manually by hand. It does not use a guidewire. It is able to reach the affected area of a patient all by itself. This catheter will improve the safety of surgeries and alleviate the burden placed on patients by reducing surgical time.

Kiba Is this catheter included in everyone's insurance coverage (National Health Insurance)?

Hayashi Of course. It is now being used to treat liver cancer, but it is also effective against intravascular aneurysms. Ultimately, we would like to produce a number of different catheters and expand the medical fields where we can contribute to treatment solutions.

Kiba Offering more of these products will greatly alleviate the burden placed on patients' bodies.

Hayashi With medical devices, if we are to achieve the objective of alleviating the burden placed on patients, we

would need to develop devices that doctors can easily use in surgery without spending much time for training and that can reduce surgical times. So, from the initial design stage, we make sure to ask a number of physicians and medical institutions for their opinions about the usability of medical devices and their surgery guidelines. Based on the information gathered, we strive to develop and keep improving products through repeated trial and error.

Kiba I now know that plastics are playing an important role in the medical field as well. On an even closer scale, I have also heard that plastic films used to maintain the freshness of food have become a topic of major interest.

Hayashi The film you are talking about is P-Plus® freshness preserving film for fruit and vegetables. In fact, the product is already used for more than 70% of the cut vegetables sold by supermarkets and convenience stores in Japan, so in most cases this film has made its way all the way to consumer households. A huge amount of unsold products used to be thrown away prior to the introduction of freshness preserving film, but after the film came along, the shelf lives of fruit and vegetables have become much longer, which has greatly reduced the amount of food wasted. The effectiveness of this product is quite visible.

Kiba Freshness preserving films are contributing greatly to reducing food loss, which has become a major social issue.

Hayashi Yes, you can say that. Prolonging freshness means products can now be shipped by sea, even though it takes longer, which is beneficial for exporting agricultural produce grown in Japan.

Kiba Usually, fresh fruit and vegetables need to be sent by air or they will spoil. Being able to send these products by sea will have amazing effects in terms of cost. This will also lead to greatly expanded business opportunities for Japanese agricultural produce.

Product Development that Reduces Environmental Impacts and Generates Profits

Kiba Reducing food loss is one way of indirectly contributing to the environment. Speaking of the environment, what are your thoughts on the depletion of petroleum resources as a global warming issue?

Hayashi As long as plastic are made from fossil resources, plastics manufacturers maintain an obligation to lower their CO₂ emissions. We keep facing the issue of the future depletion of petroleum, so in the sense of ensuring business continuity, it's important to come up with ways to manufacture products without relying on fossil resources.

Kiba Does the same hold true for bioethanol and other products?

Hayashi Fundamentally it is the same. We believe the industry is obligated to develop green phenol for making plastic from non-edible biomass such as rice straw and corn stalks. Currently, we are conducting demonstration tests jointly with the Research Institute of Innovative Technology for the Earth (RITE), with the goal of commercializing a product in fiscal 2018.

Kiba Very little CO₂ is produced during the production process of bioplastics, correct?

Hayashi Yes. However, phenolic resins are a low-cost plastic. Even if we succeeded in producing a great bioplastic, if it doesn't generate a profit, then we can't realize a sustainable cycle of production for the product. Therefore, we are now looking for other substances with commercial potential that are generated in the process used for producing phenolic resins.

Kiba Can you do that? It sounds like something only possible in the world of advanced chemistry.

Hayashi Bioprocesses produce biofine chemicals from the ancillary substances. These chemicals can be used in intermediates for pharmaceuticals or the raw materials for cosmetics.

Kiba So you are looking to branch out from bioplastics into higher margin products like cosmetics. The business case for bioplastics is important not only for the company but also for society.

Producing Human Resources with a Global Mindset that Can Underpin Our Growth

Kiba Expanding product categories and developing new applications requires developing human resources who can underpin these efforts. What are your thoughts concerning human resource development?

Hayashi Human resource development has always been an important theme for us. In 2007, we established SB School. Here, employees are able to learn various fields using 139 courses led by outside lecturers and in-house professionals. According to our data, some 180,000 employees have taken a course through SB School.

Kiba Do you offer on-the-job training in a format that allows junior employees to experience working abroad?

Hayashi We have a program in place to let employees in their third year with the company take part in a two-year overseas practical training program in turn. The program aims to foster global mindsets in our employees through having them work in assistant roles in our offices overseas to gain overseas business experiences including interacting with our local staff in other countries. We must make this into a mechanism where large numbers of employees are able to participate to gain business experiences overseas, learn through such experiences, harness their potential globally, return to Japan afterwards



and become senior managers who will lead the company forward.

Kiba What a great experience. Finally, can you share a short message for Sumitomo Bakelite's stakeholders?

Hayashi Our ideal vision is to grow our businesses and provide positive returns to society as well. To accomplish this, we will create new products to address social issues while fostering closer relationships with customers, all under the basic policy of "customer satisfaction comes first." By having these products create social and economic value and rolling them out to markets around the world, Sumitomo Bakelite's work will contribute even more to the earth, society and people's lives.

We currently have operations in 16 countries and regions around the world. In our pursuit of global business development, we recognize that it is important to fulfill our social responsibility by observing the laws of the countries where we do business and deepening our understanding of their cultures, enhancing and strengthening corporate governance, and giving due consideration to health, safety and the environment as befits a chemical company. We will continue to endorse the Responsible Care Global Charter and fulfill its voluntary obligations of continuously implementing health, safety and environmental initiatives and improving their performance.

Having the core technologies gives you all these great ideas.

Sumitomo Bakelite's Materiality

We identified Sumitomo Bakelite's materiality (priority items) in order to determine the social issues we should address and to carry out CSR activities closely in tune with the needs and expectations of stakeholders in an integrated manner on a company-wide basis.

■ Materiality determination process

1 Identification

We selected issues, referencing international guidelines such as G4 Sustainability Reporting Guidelines of the Global Reporting Initiative and ISO 26000, based on our previous efforts in various fields of CSR including the environment, safety and peace of mind, professional motivation, and society, which form part of our fiscal year plan.

Prioritization

We assessed the impacts that the identified issues have on the company and on stakeholders. After internal discussions based on the results of this assessment, we selected 14 items with particularly high priority.

3 Confirmation of Validity

Further discussions were held with each business division on these 14 priority items. Next, we narrowed the items down to 11 to focus our efforts based on the results of these discussions. On top of this, we asked outside professionals to review and provide comments on these 11 items. Simultaneously, the Responsible Care Committee confirmed the validity of these items.



Responsible Care Committee

1 Review

We will now implement CSR activities based on the materiality of these 11 items as well as conduct a review led by outside professionals and employees about the nature of these activities. The results of this review will be utilized for corporate social responsibility reports in 2017 and subsequent years as well as for activity planning.

Materiality Items Identified

| Field | Materiality item | Related stakeholders | Page number |
|---|------------------------------------|--|-------------------------------------|
| Issues related to ensuring harmony with society | Mitigate environmental impacts | Local communitiesBusiness partners | Full online version pages 35 to 40 |
| | Resource and energy conservation | Business partnersEmployees | Full online version pages 36 to 40 |
| Issues related to providing safety and peace of mind | Safety and security | Local communitiesGovernmentsBusiness partnersEmployees | Full online version pages 41 to 43 |
| | Chemical substances | Business partnersGovernmentsEmployees | Full online version page 44 |
| | Product liability | Customers | Full online version pages 45 to 46 |
| | Biodiversity | Local communities | Full online version page 55 |
| Issues impacting society | Improving stakeholder satisfaction | CustomersShareholdersLocal communitiesGovernmentsBusiness partnersEmployees | Full online version pages 47 to 57 |
| | Human resource development | Employees | Full online version pages 50 to 52 |
| | Work-life balance | Employees | Full online version page 49 |
| Issues representing the foundation of business activities | CSR procurement | Business partners | Full online version page 34 |
| | Compliance | Employees | Full online version pages 31 and 32 |

Please see page 25 for more details about our initiatives under each materiality item.

Outside opinion of materiality items

The identified issues of materiality cover a wide scope of the company's overall CSR activities rather exhaustively. I feel this conveys the company's commitment to faithfully respond to these issues as a good corporate citizen by identifying all of the channels it has with society, and attempting to address the needs of society from every possible direction.

However, materiality should be thought of in the same light as the factors having material impacts on management, so materiality items and the boundary can be narrowed further going forward. This is because CSR can be fulfilled more successfully through committing management resources efficiently based on the importance given to each item in line with the company's assigned levels of materiality. As an example, for the materiality item of "improving stakeholder satisfaction," the company has included the six stakeholders of customers, shareholders, local communities, governments, business partners and employees as the boundary. I believe that these stakeholders were selected because they are all important, but I would recommend further narrowing the boundary by including new criteria such as risks and opportunities in the assessment of relationships between the company and each of these stakeholders.

About 60% of the Sumitomo Bakelite Group's sales and workforce come from other countries than Japan, so I would like to see more overseas perspectives included and reflected in the selected items. For example, work-life balance is a very important factor for employees

working in Japan and it is also truly significant in terms of corporate management to have a workforce that is content with both work and their private life. Outside of Japan, however, there are many cases where work-life balance is not necessarily regarded as an important factor because there are a quite a few countries where work-life

balance has long been achieved as a social norm. Additionally, outside of Japan, issues of not only strange and loud noises, but environmental pollution including chemical leaks and water pollution and health issues are of the greatest concern to local residents living around chemical plants. Therefore, these issues should not be thrown together into the item of "mitigating environmental impacts;" instead they should be made into different items and addressed separately so that the company can clearly demonstrate that it is paying close and equal attention to both objectives. I look forward to the future efforts of the company.



Makiko Akabane CSR Asia

Japan representative for CSR Asia. She has covered the CSR efforts of a number of multinational corporations from various sectors for more than a decade. She has given lectures throughout Japan and around the world, including at the Ministry of the Environment, International Christian University (ICU), Keio University, Seisen Jogakuin College, Rikkyo University, Meiji Gakuin University, the World Bank, APJABIS, the British Council, and Toyo Keizai Inc.

Familiar Sumitomo Bakelite Products Around You

Most of Sumitomo Bakelite's products are processed in various ways after being supplied to customers and then delivered around the world as finished goods. Here, we will introduce a number of products made by the Sumitomo Bakelite Group that are used in various situations and play an important role in our lives.

Semiconductor Materials

···High-Performance Plastics

■ ···Quality of Life Products

Please visit the "Familiar products of our company around you" page on our corporate website to learn more about the products we make.

Link > http://www.sumibe.co.jp/around_you/en.html



Shop/Office

Shop/Office

1 Electronic components for computers and mobile phones, etc.

Epoxy Resin Molding Compounds for Encapsulation of Semiconductor Devices (SUMIKON® EME)

We carry a lineup of epoxy resin molding compounds that protect delicate semiconductors from the external environment, including moisture and impacts, contributing to improved reliability.

Sumiconductor Package Substrate Materials (LaZ®)

We deliver new value to customers with our substrate material for semiconductor packages called "L α Z," which offers reduced heat expansion and highly consistent dimensions.

Coating resins for semiconductor wafers (SUMIRESIN EXCEL®CRC)

Coating resins protect semiconductor elements from external stress and impurities, greatly improving reliability.

Paste for Die Bonding (SUMIRESIN EXCEL®CRM)

Semiconductor paste is used to attach semiconductor chips or LED chips to various substrates (lead frames, organic substrates, ceramic substrates)

2 Optical circuit products for servers, etc.

Optical waveguide sheets

Optical waveguide sheets are film-like materials for optical circuits. They are very flexible and easy to form into any shape, making them ideal for not only data communications, but various other purposes as well.

3 Lighting substrates

Copper clad laminates (SUMILITE®ELC/ALC)

Composite materials and aluminum substrates with excellent heat dissipation are used in LED lighting applications, helping to reduce energy usage.

4 Elevator cages and office walls

Melamine-Faced Decorative Sheets (DCOLA INNOVAIR®)

Our decorative melamine laminates, just 0.2mm thick, are used for walls and elevators in buildings, hotels, shops, and hospitals.

5 Freshness preserving film (fruit and vegetables and cut vegetables, etc.)

Freshness Preserving Film (P-Plus®)

This cling wrap slows deterioration in quality of fruits and vegetables in transit and storage, maintaining them as fresh as possible at the point of sale.

6 Food packaging film for ham, sausage, etc.

Multilayered Films for Food Packaging (SUMILITE®CEL)

These flexible multi-layer composite films can be used for vacuum packaging, gas packaging, skin packaging, and various other kinds of packaging.



















Car

7 Semiconductor material for electronic control

Molding Compounds For Encapsulation of Semiconductor Devises (SUMIKON $^{\circ}$ EME)

Our lineup of products for semiconductor packaging protects delicate semiconductors from external moisture and impact.

8 Substrate for electronic devices such as car navigation and car audio

Copper-Clad Laminates (SUMILITE®ELC)

Our highly heat-resistant substrate material is used in electronic control circuit boards improving fuel economy and riding comfort.



9 Tire reinforcement

Tire-Reinforcement Material (SUMILITERESIN®PR)

Our phenolic resins are added to the rubber components required for the tire stiffness, contributing to improved rolling resistance in fuel conserving tires.



10 Material for powered parts

11 Material for disk brakes

Materials for Pulleys and Disc Brake Pistons (SUMIKON®PM)

Phenolic resin molding material used in auxiliary engine parts and brake components requiring high heat resistance and strength. This material contributes to automobile weight reduction and fuel economy.



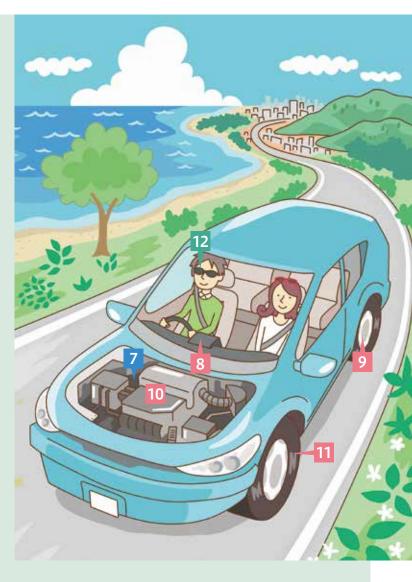


12 Polarizers for UV filter glass

Polycarbonate Sheets and Films (SUNLOID®PC)

Through the use of a new blending and dispersion technology, maintaining transparency that is nearly equal to glass, these plates cut heat rays of used such as UV filter glass, carport.





Aircraft

13 Window Assembly

14 Ltd vents

(for cabin pressure adjustment)

15 • Air Outlet Valves

• Service unit for AC, lights, etc. (for passengers)

Seat Markers

High performance plastics for metal replacement achieve weight saving, low-fuel consumption, and a comfortable environment for passengers.







SUNLOID® KD Acrylic-PVC Alloy Plate

Having many superior properties such as flame retardancy and impact resistance, these plates are used for various applications such as interior decoration for aerospace transportation and trains.







House/Farms

18 Plywood adhesive used for floors, walls and residential fixtures

Adhesives for Plywood Production and Boards (Sumitac)

This adhesive uses low formaldehyde phenol that cures quickly at low temperatures, improving the productivity of plywood manufacturing and contributing to protecting the environment.



19 Carport roofs

Polycarbonate Sheets and Films (SUNLOID®PC)

Having outstanding impact resistance and transparency, these plates are applicable for construction and architectural needs such as canopies and windows.



20 Film for greenhouse siding (walls)

Polycarbonate Sheets and Films for Agricultural Use (SUNLOID®PC)

"SUNLOID" PC films have the same transparency and impact resistance as other Polica Ace applications. They can be used for covering the lower part of greenhouses and other covering materials.



21 Freshness preserving film (fruit and vegetables and cut vegetables, etc.)

Freshness Preserving Film (P-Plus®)

This cling wrap slows deterioration in quality of fruits and vegetables, maintaining them in a fresh state for a longer time. Our lineup includes not only films for commercial applications, but also zipper bags for



22 Waterproofing sheets/systems for roofs

Waterproofing Sheet and System (SUNLOID DN®)

Employing PVC sheets, this system is used on the roofs of buildings, for the waterproofing of tanks and veranda flooring, and on the roofs of high quality prefab housing.



23 Greenhouse material

Polycarbonate Plate (SUNLOID PC Corrugated Sheet)

Material is made of polycarbonate resin with excellent impact strength and transparency as well as weather resistance. It also has excellent moisture and thermal resistance. A plentiful assortment of colors is available for a wide range of uses.



Medical

24 Packaging material for pharmaceutical

Push-through pack (PTP) packaging materials for pharmaceuticals (SUMILITE $\!\!\!^{\otimes}$ VSS)

These materials help maintain the quality of a wide range of drugs that require careful attention to sanitation and safety



25 Plastic wares for cell culturing

Biotechnology-Related Products

These bio chip and bead products are helping to reduce waste and lower costs by speeding up and downsizing equipment for biological sample



26 Plastic wares for testing

Laboratory Plasticware (SUMILON®)

SUMILON® is our brand of laboratory plastic wares that include plates, flasks, dishes, and cryogenic tubes.

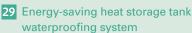


27 Medical instruments for surgery and drainage

28 Supplies for patient drainage and nutrition management

Medical and Therapeutic Devices (sumius®)

Our medical equipment contributes to safety and reliability in healthcare, supporting everyone's health



Thermal insulation and waterproofing Sheet & System (for thermal storage tanks of energy conservation systems)

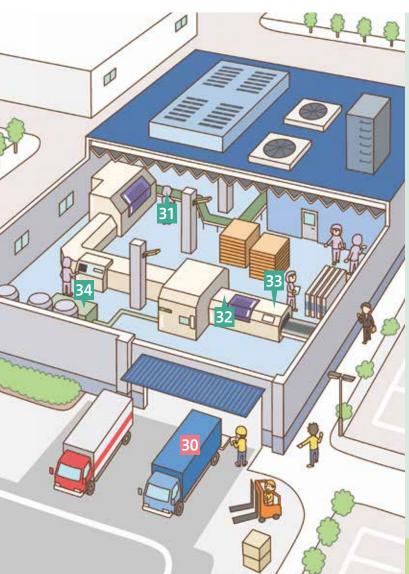
Regenerative heat pumps contribute to energy savings. Our waterproofing and insulation system for heat storage tanks supports the energy saving activities in urban cities











Factory

Purifying water for nitrogen compounds from diesel engine gas exhaust

Diesel Exhausts Fluid (AdBlue)

This high purity urea water is used in systems for lowering nitrogen oxide from diesel exhaust, contributing to protecting the environment.



31 Manufacturing facility covers, security windows, partitions, etc.

Multilayered Films and Sheets for Industrial Use (SUMILITE® CEL)
Our PVC Heat Resistant Plate offers heat resistance for industrial use, corrosion resistance, and chemical resistance.



32 Packaging, transport, and mounting tape for semiconductor parts, etc.

Cover Tapes for mounting semiconductors (SUMILITE® CSL)
Our tape is used for transferring and mounting semiconductors, playing a role in protecting semiconductors from static electricity.



Wafer adhesive tape used for dicing process of semiconductor parts

Tape for dicing process in semiconductor and related field (SUMILITE $^{\rm @}$ FSL)

Tape for the dicing process in semiconductor and related fields. Dicing tape is designed to meet a variety of customers' requirements.



34 Manufacturing facility covers, security windows, partitions, etc.

PVC Plate (SUNLOID PVC Heat Resistant Plate)

Our PVC Heat Resistant Plate offers heat resistance for industrial use, corrosion resistance, and chemical resistance.



Train/Station

35 Ceilings, doors, walls, etc.

Aluminum based decorative laminates (Decola MA) Having flame retardancy, light weight, and design variations, Decola MA® products are used for interior materials of railway vehicles and busses, and contribute to comfortable spaces of vehicles.



36 Armrests and tables for seats

PVC Plate (SUNLOID® KD Acrylic-PVC Allay Plate)

Having many superior properties such as flame retardancy and impact resistance, these plates are used for various applications such as interior decoration of aerospace transportation and trains.



37 Station billboard material

Acrylic Light Guide Panel (SUNLOID® LUMIKING)

Our acrylic light guide panels for signboards and lighting applications are used for sign panels, ornamentation, and illumination in shops.







Special Feature 1

Making Farm Fresh Produce Fresher and Better Tasting

Tokyo Seika and Sumitomo Bakelite

Freshness preserving film P-plus® carries with it the potential to influence marketability and distribution channels of fruits and vegetables by keeping them fresh for a longer time. A round-table discussion was held with representatives of Tokyo Seika Co., Ltd. of the Tokyo Central Wholesale Market (Ota Market), the largest distributor of fruits and vegetables in Japan, about how they are using the freshness preserving film and what they expect from the product.

Round-table discussion

Changing Japan's Agriculture by Innovating Distribution and Packaging

Film that Preserves the Taste and Appearance of Fruits and Vegetables

Ishikawa Sumitomo Bakelite has manufactured and marketed freshness preserving film P-plus® for fruits and vegetables for close to a quarter century now. After the product's initial release, we had absolutely no connections with fruit and vegetable wholesale markets, so our sales efforts in the beginning focused on producers and we used to go to farming communities to promote our product.

However, we gradually noticed the need to approach major distributors, and during this process, we gained the cooperation of Tokyo Seika Co., Ltd. Our cooperation with Tokyo Seika allowed us to convey the advantages of using P-plus® to vendors, buyers and others working in their market, making it possible to eventually convince producers of the advantages of using the film and win their trust in us and in our products. This has also enabled us to build a strong partnership with Tokyo Seika over the years.

Nagahori Ota Market carries fruits and vegetables





produced in places very far from Tokyo. These produce face issues stemming from the long transportation time they need to reach consumers, such as being bruised in transit and suffering degradation of appearance. These issues used

to attract many complaints from retailers. However, things changed after Ota Market began using P-plus® in packaging. Today, our fruits and vegetables make it possible to keep store shelves fresh and looking very appealing. We are now receiving less complaints than before.

Minejima Using P-plus® in packaging lets fruits and vegetables breathe, keeping them alive, so to speak. This prevents odors and moisture from forming, maintaining freshness in the process.

Iwaki I'm in charge of mushrooms. Mushrooms contain a large amount of moisture. That's why, when the temperature increases, they spoil quickly. Many people think that a sour smell when you open a package of mushrooms is normal. However, using Sumitomo Bakelite's freshness preserving films eliminates this smell and makes mushrooms taste better.

Minejima To better convey these results, with the help of Tokyo Seika, we invite producers and supermarket buyers to our Fruit and Vegetable Assessment CS Center to see the film firsthand and compare for themselves how different foods taste depending on their packaging.

lwaki The Fruit and Vegetable Assessment CS Center for

P-plus[®] is conveniently located close to the Ota Market, so we have been able to have buyers view the results for themselves, which are then conveyed to producers.

Nagahori At the Fruit and Vegetable Assessment CS Center, I get to view the testing results of fruits and vegetables that my colleagues are in charge of. The testing results let me see clearly what happens to fruits and vegetables as time passes, so it is very informative. Observing the results first-hand, I am now convinced that P-plus® should be used for fruits and vegetables that spoil quickly.

Supporting the Establishment of New Fruit and Vegetable Brands

Ishikawa The Fruit and Vegetable Assessment CS Center has accumulated data on some 7,000 items, including test results. Based on this, we are able to provide customized films fully tailored to the respiration rate and transit process of each category of fruits and vegetables. This is our strength.

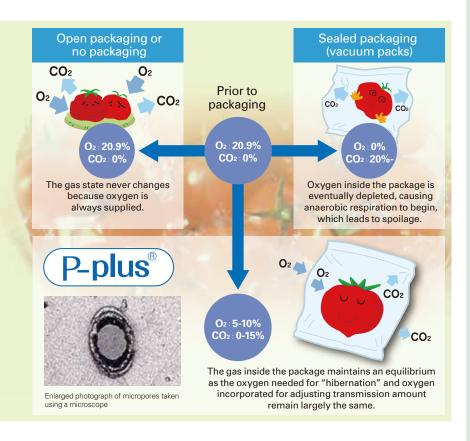
Nagahori If the freshness of individual fruits and vegetables can be maintained, this means the amount of loss in transit

can be reduced as well and fresh items can be sold at a higher price. In turn, this will increase the unit prices paid to producers. Also, for fruits and vegetables that could not be carried at Tokyo markets because they spoil quickly, using P-plus® may let them find new



What is P-plus®?

Using leading technology in micro perforation, P-plus® matches film permeability to the product's respiration rate. Based on a wealth of data on all categories of fruits and vegetables, the size and number of micro perforations is fine-tuned based on the requirements for distribution, which optimizes the condition of fruit and vegetables in transit. This equilibrium lowers respiration rates, creating a state similar to "hibernation."



markets in Tokyo and beyond.

Minejima Today, consumers in the Kanto region of Japan can purchase unique varieties of edamame such as dadachamame from Yamagata Prefecture and cha-mame from Niigata Prefecture. P-plus® has played a part in developing this trend. With previous packaging methods, properties such as sugar content, taste, and color, of these edamame varieties used to decline easily. However, our film has made it possible to distribute these items from remote areas with their freshness intact.

Nagahori Producers today have a strong interest in turning fruits and vegetables they produce into recognized brands. They are making various branding efforts such as giving their products unique names and boosting PR activities. However, the most important thing is quality, so I believe there will be growing demand for packaging that can maintain freshness.



lwaki For consumers, too, freshness plays the biggest part in finding something delicious. As a consumer myself, I'll be very thankful once having farm fresh produce delivered fresh to stores becomes an everyday occurrence.

Ishikawa In terms of this new

brand creation, the use of P-plus[®] is increasing for the purpose of delivering Japan's high quality fruits and vegetables to markets around the world. It is now possible to send items to faraway places by sea while maintaining their freshness,



which will make these products more cost competitiveness internationally. I hope to continuously play a role in revitalizing Japan's agriculture with P-plus®.

Tokyo Seika Co., Ltd.

Coordinator of Fruit and Vegetable Distribution with a Commitment to **Bringing Farm Fresh Produce to the Dining Table**

3-2-1 Tokai, Ota-ku, Tokyo 143-0001 Paid-in capital Annual transaction volume 196.7 billion yen

510 Employees

Consignment sales and purchases of fruits and vegetables as well as processed foods Business line

Founded in 1947, Tokyo Seika is Japan's largest distributor of fruit and vegetables, as it ranks number one in transaction volume among the 3,500 distributors in Japan (as of June 7, 2016).

Link > http://www.tokvo-seika.co.jp

Fruit and Vegetable Assessment CS Center

The Ota Market, Japan's largest wholesale market for fruits and vegetables, plays host to producers and distributors from across Japan. The Fruit and Vegetable Assessment CS Center has been set up at the front entrance to the Ota Market in order to provide these people with information about the benefits of P-plus[®].

This facility conducts comparative testing of packaging and provides market participants with opportunities to experience firsthand the effectiveness of P-plus® by smelling and tasting samples of items packaged in P-plus®. In July 2016, the Western Japan CS Center was opened at the Osaka Market.









Testing in progress at the Ota Market's Fruit and Vegetable Assessment CS Cent

Examples of P-plus® in Use

P-plus® is used not only for whole fruit and vegetables across Japan, but also for packaging cut vegetables. P-plus® is also sold in the form of zipper bags for home use.



Link → https://www.sumibe.co.jp/english/product/p-plus/







P-Plus[®] is being used more across Japan!

Look for this symbol

Examples of specialty fruits and vegetables produced across Japan using P-plus® for shipping.

Every month new topics about fruits and vegetables are introduced on our corporate website under the title "This month's P-plus® fruits and vegetables."

Link → http://www.sumibe.co.jp/product/p-plus/topics/

JA Tsuruoka (Yamagata Prefecture)

Edamame



The Edamame Growers Committee of JA Tsuruoka was the first in Japan to start using P-plus® for packing their high quality, farm fresh dadacha-mame. Introducing P-plus® packaging and low-temperature logistics system into their supply chains has made it possible for dadacha-mame to be delivered nationwide.

Flower Land Kamifurano (Hokkaido)

Asparagus



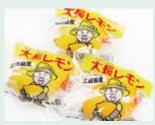
Flower Land Kamifurano ships about 30 tons of asparagus between the middle of May and June. The farm uses P-plus® to package all 30,000 bags of them (in 1 kg bag) in order to deliver farm fresh asparagus to consumers.

Asparagus harvested in the morning are shipped the same day. P-plus[®] maintains their freshness, enabling consumers across Japan to enjoy the delicious taste of freshly picked produce.

resident of Flower Land Kamifurano Ltd. Masatoshi Ito

JA Hiroshima Yutaka (Hiroshima Prefecture)

Lemon



JA Hiroshima Yutaka established the ability to individually seal lemons after harvest using P-plus®, storing them in refrigerators for later shipment to retail stores based on a commitment to deliver domestically grown lemons year round. The quality of these lemons has received rave reviews from its customers.

JA Hanzawa (Saitama Prefecture)

Broccoli



Broccoli is one vegetable that loses its freshness quite quickly. JA Hanzawa started using P-plus®, for packaging broccoli, making it possible to preserve freshness longer than before, while also improving work efficiency. JA Hanzawa was also able to lower its total packaging material costs, helping to differentiate itself from other producers.

P-plus® is now synonymous with maintaining the quality of broccoli. Going forward, we hope to maximize the advantages of P-plus® and also make the JA Hanzawa name more visible to consumers.

Manager, Sales Section, JA Hanzawa Yusuke Sato

Kushima Aoi Farm (Miyazaki Prefecture)

Sweet Potato



Sweet potatoes grown by Kushima Aoi Farm are shipped throughout Japan, as well as exported to Hong Kong, Taiwan and Singapore. Starting in July 2015, Kushima Aoi Farm became the first in Japan to ship all sweet potatoes packaged with condensation prevention type P-plus® films.

What is condensation prevention film?

Enclosing certain fruits and vegetables in conventional anticlouding film caused condensation to form on the surface of the film due to the moisture content of the fruit or vegetable, negatively affecting freshness.



After seeking ways to deliver genuine and authentic tastes of our sweet potato to consumers, we found the freshness preserving technology of P-plus®. We expect to see great results from using the newly developed condensation film.

Manager, Sales Section, JA Hanzawa Makoto Ikeda

JA Minami Shinshu (Nagano Prefecture)

White Beech Mushroom



JA Minami Shinshu used to ship white beech mushrooms by placing them in a tray and enclosing it with plastic wrap, but sought other packaging options with a view to reducing the environmental impact. After introducing P-plus®, JA Minami Shinshu can now ship its white beech mushrooms while maintaining stable quality all year round.

Collaboration with a Research Institute Gave Birth to "Green Phenol" Production Technology

Research Institute of Innovative Technology for the Earth (RITE) and Sumitomo Bakelite

Phenols used to be produced from petroleum. A process that radically changes the way it is made was brought about by collaboration between Sumitomo Bakelite and the research institution.

We take a look at the various advantages of the new phenol production process using non-food biomass.

Transforming the long-standing production method of phenolic resins into a green process

Phenolic resins have excellent heat resistance, flame retardance, electrical non-conductivity characteristics, and mechanical properties. Their applications have spread from cookware handles for pots to construction materials and electronic components. They have been used to replace metal automotive parts, helping make vehicles lighter, and the technology has even been used in aircraft parts. With a history spanning over 100 years since development, phenolic resins continue to play an important role in industry and our lifestyles. Because phenols, the raw material of phenolic resins, are made from petroleum by using large volumes of solvents in high temperature and under high pressure, their production process has been a known source of substantial CO₂ emissions. Something needed to be done to clear this image. "Green phenol" was developed as part of this effort.

■ Green phenol development partnership

New Energy and Industrial Technology Development Organization (NEDO)

FY2009--FY2010 commissioned project

Joint research

SUMITOMO BAKELITE CO., LTD.

Research Institute of Innovative Technology for the Earth (RITE)

2010 Established Green Phenol Technology Research Association

May 2014 Founded Green Phenol Development Co., Ltd.



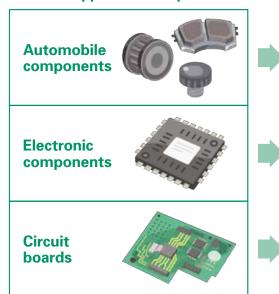
RITE

Link → http://www.rite.or.jp/en/

Green Phenol Development Co., Ltd.

Link → https://www.rite.or.jp/bio/en/

■ Diverse applications of phenolic resins



They are used in a variety of products







All four members are currently seconded to Green Phenol Development Co., Ltd.

Round-table discussion The Future Created by the Practical Application of Green Phenol

Collaboration Led to Development of the **Groundbreaking Production Process**

Miyauchi Up to now, the raw material for phenolic resin has been limited to petroleum, but in using biomass we have managed to diversify the raw material. Also, it takes several to tens of millions of years for plants buried in the ground to turn into petroleum whereas it only takes several years or decades for biomass plants to grow into a raw material. This fact, I think, is a great advantage.

Inui The "RITE Bioprocess", a growth-arrested bioprocess we developed, is unique in the sense that the microbial catalyst utilizes a variety of sugars derived from biomass, such as glucose and xylose, simultaneously.

Another feature of our technology is that it is a growthindependent bioprocess. The "RITE Bioprocess" proceeds without microbial growth in a reactor densely packed with microbial cells, achieving higher efficiency and productivity. The other advantage of our process over conventional fermentation processes is that it is generally tolerant to fermentation inhibitors like phenolic compounds, which are often generated during biomass saccharification process.

Hiraga Phenol is an aromatic compound and is a powerful sterilizer. High concentrations of phenol can kill microorganisms. For these reasons, people used to think producing phenols in a bioprocess was extremely difficult.

The RITE Bioprocess is a growth-arrested process and therefore tolerant to toxic fermentation inhibitors. We found that this property gives an advantage also when you produce toxic products such as phenol.

Inoue Sumitomo Bakelite has been involved in phenoic

resin manufacturing since its foundation, but no one in the company was thinking about a phenol production process using microbial catalyst. So, we were extremely interested in RITE's process using completely new technology and knowledge.

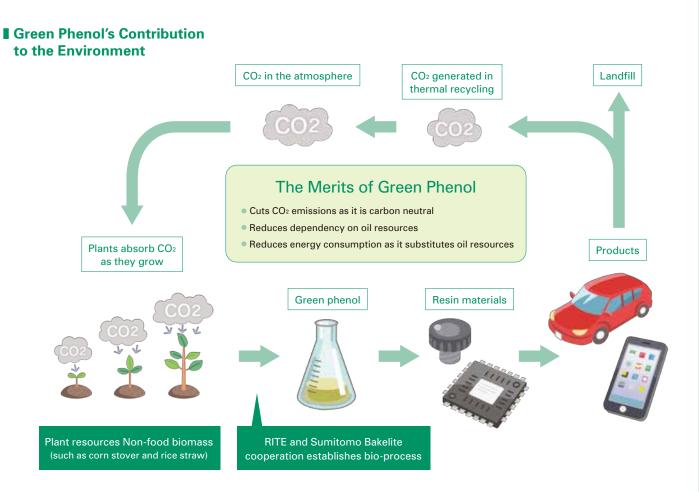
When we spoke about the RITE Bioprocess, many on the factory floor were surprised.

Hiraga Collaboration between RITE and Sumitomo Bakelite, specialists from two different fields, led to development of a groundbreaking technology for green phenol production from biomass. Neither of us alone could have achieved this.

Commercialization Efforts Open New Opportunities

Inoue As we are a private company, research and development is not the end; the aim is commercialization. The Green Phenol Technology Research Association was just about research, so to make the organization go a step further, we decided to incorporate it so that the organization can start seeking ways to commercialize the technology. That is how the Green Phenol Development Co., Ltd. was born in May 2014.

Miyauchi Since the development of the stock company, we changed the research strategy. With clear goals in mind, we carefully set up a plan to achieve them in shortest time possible. For example, R&D programs that used to be conducted as an extension of laboratory projects have now turned into pilot demonstration and verification tests that predicated the construction of mass production facilities. In working toward commercialization, our order of priority in a development project clearly changed.



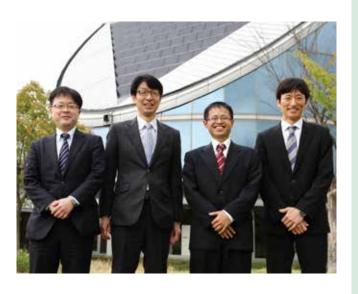
Inui As RITE is a research institute, we rarely have an opportunity to work towards commercialization, which is the step after R & D. Through this incorporation, we became members of the Green Phenol Development Co. Ltd., established with Sumitomo Bakelite. We have learned a lot, and in the course of learning from each other's methods, we grew to feel a strong sense of working together with everyone else to reach the goal of commercialization.

Miyauchi In fiscal 2015, the development bases were consolidated at the Shizuoka Plant, and in 2016, a pilot plant started operations. Doing research at the same plant that has produced vast amounts of phenolic resin allows us to take advantage of the existing knowhow and infrastructures to work toward commercialization.

Inoue We have, at the laboratory scale, successfully produced green phenol that is, in terms of quality, indistinguishable from the petroleum-based phenols. Upon mass production, however, we would have many struggles to produce products that meet our customers' demands on schedule. I want to take on each of these challenges one by one and make steady accomplishments with green phenol.

Hiraga Producing phenol from biomass is a challenge like climbing Mt. Everest and will have a huge impact in academia and industry. If we can achieve practical application, the process can be used as a base for applications in the production of many other aromatic compounds.

Inui In applying the green phenol production process, it will be possible to open new markets by offering value-added chemicals at lower costs, for example. These are the markets hard for other research institutes and companies to explore. I would like to fully enjoy the benefits of our technology and expand business opportunities.



Voice of the Experts

Practical Use Brings New Possibilities to the Chemical Industry



Director
Functional Chemical Products Office,
Manufacturing Industries Bureau, Ministry of
Economy, Trade and Industry

Satoshi Inoue

With the amendment of the Research and Development Partnerships Act in 2009, technical research associations could be incorporated without being dissolved, but the new system was not used much. Green Phenol Development Co., Ltd. was the first project that followed the spirit of the law linking research and development results to practical application, which I think is a very significant endeavor.

Many of the chemical products we use daily are produced from oil, and Japan's chemical industry relies heavily on it. Since bio-plastics are made from biomass, promoting their use helps diversify the raw materials for chemical products. I think it is important for manufacturers to work on developing bio-plastics and their applications that have overwhelming advantages over the ones produced from fossil fuels not only in their contribution to the environment but also in their functions.

In the future, it is my hope that the commercialization of green phenol will help develop a new style of chemical industry where local governments support local production and consumption with each region using the local vegetation as a feedstock for their own town's plastic.

Voice of the Partners

Cooperation with the Private Sector Made it Possible to Put Research Achievements into Practice



Senior Managing Director, Research Institute of Innovative Technology for the Earth (RITE)

Takashi Honjo

Since 1990, RITE has continued to conduct research programs that are unique and specialized in technology to combat global warming.

Using plants as a raw material for phenol instead of oil was thought to be impossible. What made it possible was the RITE Bioprocess that we have developed over many years of research. However, RITE, being a research organization, could not put the process to practical use alone. In collaborating with industrial partner Sumitomo Bakelite, I am pleased that it has progressed to the actual practical usage stage. Collaborating

with Sumitomo Bakelite, a private company, has provided us access to financial support and plant facilities for testing, all of which led us to where we are now.

It is significant that, through this practical use, RITE's research can be used across the world and contribute to the mitigation of global warming. Going forward, my hope is that we proceed with full-scale commercialization, increase profits, and develop the basis for taking on further new challenges.

Striving to Contribute to the Environment through Supporting Various Industries

We will focus on enhancing the mass production technology and facilities for our environmentally friendly innovation, green phenol derived from bio-sources. That process will put to use the knowledge accumulated through businesses we have conducted over the years.

If we can make green phenol practical, we will be able to provide new ways to contribute to the environment through proposing eco-friendly materials to industries that use phenolic resins. I want to steadily work to put this new material to practical use as a first step toward making the entire society more prosperous.

Sumitomo Bakelite Co., Ltd. Executive Officer and General Manager, Corporate R&D Center Koji Choki





Special Feature 3

The Challenge of Reducing Food Packaging through Cooperation with Various External Partners

NH Foods, Tokyo Foods Machinery, NPO Gomi-Japan, and Sumitomo Bakelite

ECOCeeeL® is a lightweight food packaging film combining thinness and toughness that enables a 20% reduction in the weight of packaging waste compared with our earlier products. Taking advantage of this feature, Sumitomo Bakelite partnered with other companies in an initiative to reduce food container packaging and also exhibited at Eco-Products 2015 as part of their efforts.

External Collaboration that Strongly Communicates the Product's Appeal

By promoting the use of ECOCeeeL® we want to reduce waste and contribute to society. To achieve that vision, we partnered with Gomi-Japan, an NPO that seeks to reduce waste emissions, and have carried out with them various activities including demonstration experiments.

We have exhibited at Eco-Products every year since 2013, and since the first year, students of Gomi-Japan have helped us every time as booth attendants and explained to visitors about our exhibit. Also, with cooperation from Tokyo Foods Machinery, we have conducted a vacuum packing demonstration every year using the packing machine the

Development of a thin, strong packaging film that contributes to waste reduction



Newly developed ECOCeeeL® deep draw packaging film is thinner and stronger. It reduces plastic waste and CO₂ emissions. Since its introduction in 2012, plastic waste has been reduced by some 30 tons (as of June 2016).

company has provided.

NH Foods also helped us in Eco-Products 2015. To show what ECOCeeeL® can do, our exhibit this year displayed NH Food' products as familiar, daily items for consumers. Again this year, we conducted a demonstration of vacuum packing the packaging machine, an all-time favorite component of our exhibit among visitors. The students from Gomi-Japan introduced our efforts for promoting the "Heraso" (reducing food packaging) initiative, showing selected products packed in reduced packaging as real-life examples.

We were able to meet face-to-face with a lot of people at Eco-Products we normally don't have a chance to in business, such as children, grade school and university students, and homemakers interested in the environment. These people came to our booth and grew interested in food packaging after enjoying our exhibits and demonstrations, which was very rewarding for us. We want to make use of the experience we had at the exhibition and will keep working with our partners and contribute to the global environment and society through containers and packaging.



Sumitomo Bakelite Co., Ltd.
Films & Sheets Division
Manager, Food Packaging Sales Dept.
Atsushi Tanaka



Sumitomo Bakelite Co., Ltd. Films & Sheets Division Food Packaging Sales Dept. **Akihiro Horikoshi**

Collaborating with other Companies

With the help of NH Foods Ltd. and Tokyo Foods Machinery Co., Ltd. in the exhibition booth, we were able to communicate the properties of materials used for packaging and containers and the role that packaging has for the global environment in many ways.

A Booth of "Good Strangeness" Grabbed Attention of Consumers

Food packages must ensure the safety of its contents. On top of that, there are other considerations such as environmental performance, and reflectivity and transparency which affects how the product looks. I feel that everything from Sumitomo

Product using ECOCeeeL[®] in its package

Bakelite's clear explanations that were not limited to physical characteristics data, first impressions of customers seeing them at shops, and proposals were met with earnest and speedy responses. Eco-Products 2015 was a great opportunity for us, because Sumitomo Bakelite invited us

to take part. We were able to have this great opportunity because Sumitomo Bakelite invited us to take part in this opportunity. Displaying our products at Sumitomo Bakelite booth, I believe, made people think: "What are NH Foods' products doing in Sumitomo Bakelite's booth?" By making people feel this kind of "good strangeness," we succeeded in making visitors look twice at our exhibit and having them interested in food packaging. This exhibit provided the visitors an opportunity to know about food packaging, a subject that consumers don't have many chances to learn about.

As a food manufacturer, we want to make packaging lighter but there are technical limitations. By sharing this issue and other concerns with people of Sumitomo Bakelite, we hope to build a deeper cooperative

relationship with them.

d us

Corporate Management Division

Manager, Corporate Social Responsibility Department

Norihiro Kawasaki



A Valuable Forum for Interacting with Consumers

Ordinary people have almost no opportunity to see the packaging machines we make. We have had one machine installed in Sumitomo Bakelite's booth every year since Eco-Products 2013, and having such a forum to directly interact with elementary school students and homemakers has boosted our motivation. Vacuum packing things that visitors

bring us is one of the highlights of the exhibit at Eco-Products, and it is fun to see the expression of joy by children as they take their packaged items home.

All a packaging machine does is create a shape; Sumitomo Bakelite handles the chemical characteristics and technology. While a machine can create a vacuum or change the volume of air, the quality of the film determines the performance of packages, such as how well they block out oxygen and light or prevent clouding. Going forward, we want to keep working with Sumitomo Bakelite on both machinery and packaging materials to deliver even better packaging.





A vacuum packaging demonstration using a packaging machine set up in the booth

Tokyo Foods Machinery Co. Ltd. Administration Department Marketing Team

Anneliese Foote



Partnering with Gomi-Japan

At Eco-Products 2015, students of Gomi-Japan helped us as booth attendants at the Sumitomo Bakelite booth.

NPO Gomi-Japan

Gomi-Japan is an organization of seminar students active under Masanobu Ishikawa, a professor at the Graduate School of Economics at Kobe University. It aims to curb the amount of container and packaging waste by partnering with businesses and other organizations to promote initiatives and activities with them including "Herasou (package reduction) Shopping" campaign.

Link > http://gomi-jp.jimdo.com

Inspiration from Learning about Different Businesses' Environmental Activities

Participating in the Eco-Products exhibition made us see "eco" in many different forms. At the venue, it was eye-opening to see things and initiatives we did not know existed or never thought about, all in concrete forms.

It made me want to create a new form of "eco" myself.

It was thought-provoking for me.

NPO Gomi-Japan

Momoko Morikawa



Through participation in the Eco-Products Exhibition, I have been able to see how companies in Japan are seriously tackling environmental issues and making contributions in various ways.

There are many different initiatives including activities to cut down on CO₂ emissions, efforts to reduce container packaging, and loans extended based on

environmental performance. However, one thing all companies had in common was their determination to be eco-friendly.

This time again, we are proud to contribute what we can by participating in these activities.



NPO Gomi-Japan
Satoshi Kuroki

Many Visitors Came to the Booth

I was most surprised when I put something in the machine and it was put in a vacuum.

My dad told me that they use it when packaging ham and sausages and it's amazing that they are incorporating eco in

I was taught the 3Rs at school, and thought that if these things progressed then we wouldn't have to worry much about the earth.

(Grade 6 elementary school student)

I learned that even though it looks like a regular film, it's thin and doesn't tear, and was really impressed at the ideas of these companies.

I was impressed with the Sumitomo Bakelite booth as I could learn how things are packaged by seeing the processes firsthand, as if I was on a factory tour. At their booth, I was also able to talk with university students who were about my age, which was another experience I remember fondly.

(3rd year university student)



The opinions and comments we received from our many visitors is a great resource to the Sumitomo Bakelite.

Building upon cooperation with other companies and NPOs going forward,

we intend to develop and provide more environmentally-friendly packaging.

FY2015 Activity Highlights

Providing safety and reliability while pursuing harmony with the environment and society. Through our businesses, we are striving to solve various social issues including the ones related to energy and the environment, and work toward achieving a sustainable society. To that end, we have established plans and set goals for the social issues and businesses we should focus on, and are steadily promoting activities based on them.

For fiscal 2016, we have organized key aspects of our CSR efforts and present them to the public as our challenges to address in an easy-to-understand format.

■ Fiscal 2015 Activities Plan, Achievements, and Evaluation

O: Goal attained

 \triangle : Goal not attained (but improvement over the previous fiscal year)

▼: Goal not attained (deterioration from previous fiscal year)

| Area of activities | Major items | Fiscal 2015 targets | Fiscal 2015 results | Achievement evaluation |
|--|--|---|--|---------------------------|
| initiatives (compared Reduction (compared Reduction (compared Reduction (In Japa | Reduction in CO2 emissions | In Japan: 26% reduction | In Japan: 30% reduction | 0 |
| | (compared with fiscal 2005) | Overseas: 12% reduction | Overseas: 14% reduction | 0 |
| | Reduction in material loss (compared with fiscal 2005) | In Japan: 30% reduction | In Japan: 25% reduction | Δ |
| | | Overseas: 46% reduction | Overseas: 40% reduction | ▼ |
| | Reduction in chemical substance emissions (In Japan: compared with fiscal 2005) (Overseas: compared with fiscal 2010) | In Japan: 63% reduction | In Japan: 67% reduction | 0 |
| | | Overseas: 41% reduction | Overseas: 49 % reduction | 0 |
| Initiatives for safety and reliability | Quality audits | In Japan: 4 business divisions Overseas: 4 business divisions | In Japan: 4 business divisions Overseas: 4 business divisions | 0 |
| Initiatives for enhancing employee motivation | In-house human resources development | Continue employee education and training at SB school.*1 | Cumulative total of about 18,000 employees participated in training programs Cumulative total of about 29,000 hours of education and training provided to employees | 0 |
| Relationships with society | CSR procurement | Review the procurement policy (CSR items) Incorporate EICC Code of Conduct*2 | Revised procurement policy to incorporate EICC Code of Conduct as of October 1, 2015. Posted on website. | 0 |
| | Enhancement of customer satisfaction | Continue activities to strengthen ties with customers under the leadership of the company-wide CS Promotion Committee Promote preparation of content that helps customers understand our products Activities to improve hospitality for customers at business sites | Relationship-building activities with customers carried out on the basis of cooperation Promoted the creation of the content in the near future that shows Sumitomo Bakelite in various fields By promoting activities to enhance hospitality at each base, a hospitality mindset has taken hold among employees | 0 |
| | Support for education of the next generation | Offer science teachers opportunities to deepen relationships with local companies through schoolorganized study groups Facilitate companies' provision of advanced science and technology-related information to science teachers through events (support activities) to support education of the next generation | Mitsui Norin Co., Ltd. Held 7th science education event at Fujieda Plant Teacher responses in the post-event questionnaire showed the participants were satisfied with the event and over 90% replied that they could use what they learned in their own classes and in instructing students. | 0 |
| | Prevention of occupational accidents | Number of lost-time accidents in Japan: 0 | In Japan 1 | Δ |
| | | Number of lost-time accidents overseas: 12 | Overseas: 31 | ▼ |
| | Environmental and safety audits | In Japan: 5 business sites, 7 affiliated companies, 8 plants Overseas: 5 companies in SE Asia 5 companies in North America | In Japan, 5 business sites, 7 affiliated companies, 8 plants Overseas: 5 companies in SE Asia 5 companies in North America | 0 |
| | Support for environmental NPOs | Continue support for NPO Morino Chonai-Kai (Forest Neighborhood Association) | Usage of Mori no Chonai-Kai paper amounted to about 9,000kg 28% year-on-year increase) contributing to tree-thinning of 0.55ha | 0 |

^{*1} SB School (Sumitomo Bakelite School) is an internal training organ for all employees from new hires to executives.

I fiscal 2016 Activities

| Area of activities | Items | Initiative | |
|---|---|---|--|
| Issues related to the | 1. Reduce burden on environment | ● Reduce CO₂ emissions ● Atmospheric emissions ● Reduction in material loss ● Reduction in chemical substance emissions | |
| promotion of harmony with the environment | 2. Resource conservation, energy- saving | Resource conservation, energy-saving activities | |
| Themes for providing safety and reliability | 3. Safety and reliability | Environment and safety audit Prevention of industrial accidents Reduction of machine and facility-related risk Reduction of chemical substance risk Security and disaster prevention | |
| | 4. Management of Chemical Substances | Management of chemical substances | |
| | 5. Product Liability | Product responsibility | |
| Themes that affect | 6. Biodiversity | Biotopes • Activities to preserve forest biodiversity | |
| society | 7. Improvement of stakeholder satisfaction | Improvement of customer satisfaction | |
| | 8. Human resources training | Internal human resources training | |
| | 9. Work life balance | ■ Training of the next generation ■ Employment support ■ Employment of people with disabilities ■ Women empowerment | |
| Fundamental themes | 10. CSR procurement | Practice of CSR procurement | |
| | 11. Compliance | Compliance Code of conduct for employees Articles for emphasis in compliance, training Whistleblower system Monitoring | |

^{*2} The EICC (Electronic Industry Citizenship Coalition) Code of Conduct is a set of standards on social, environmental and ethical issues in the electronics industry supply chain to ensure that workers are working in safe environments and are treated with dignity and respect, and that the manufacturing process fulfils responsibility for the environment.

Business Policy and CSR

The Sumitomo Business Philosophy and Sumitomo Bakelite Group Business Philosophy

We have inherited Sumitomo's Business Philosophy, passed down by the Sumitomo family, which has supported the Sumitomo Group for four centuries. The origins of this philosophy are found in the Monjuin Shiigaki (the Founder's Precepts), a document written by Sumitomo family founder Masatomo Sumitomo. Approximately 400 years ago, Sumitomo (Monjuin) wrote to his family about business

wisdom, urging at the beginning, "Strive with all your heart, not only in business, but in all situations."

The rigorous efforts and honesty demanded by the Monjuin Shiigaki as well as other personal character-building precepts continue to form the foundation of the Sumitomo Group's Business Philosophy and make up the basis of our fundamental policy.

Business Philosophy of Sumitomo Bakelite Group (Company Policy)

Our company places prime importance on trust and sureness, and shall commit itself to contributing to the progress of society and enhancement of people's welfare and livelihood through its business activities.

Standards of Conduct of Sumitomo Bakelite Group (Code of Conduct, Code of Ethics)

Policy

- **1.** We play an important, beneficial role in our society, offering customers products and services that put customer satisfaction first.
- 2. We strive to improve the performance of the Group of Sumitomo Bakelite Co., Ltd., always taking a global perspective.
- **3.** We adhere to our corporate ethics, complying with legal requirements and our bylaws both in Japan and abroad, while engaging in fair and transparent business activities.
- **4.** We emphasize safety while independently engaging in environmental protection activities.
- **5.** We strive to create a pleasant work environment through respect for individual personalities and human rights.

Management Policy of Sumitomo Bakelite Group

To become an excellent global enterprise that helps enhance customer value through creating plastics with more sophisticated functions, and achieving sustainable growth in the advanced chemical products sector.

Policy on Responsible Care Activities*1 of Sumitomo Bakelite Group

Philosophy

In all its operations, Sumitomo Bakelite Co., Ltd. will contribute to the sustainable development of society while promoting business activities by meeting the highest standards of the Responsible Care concept and giving due consideration to environmental preservation, human health and safety as well as product quality.

Policy

1. Evaluate the safety, health, and environmental aspects throughout the entire life cycle of a product, from product design to the procurement of raw materials through disposal,

strive to minimize the environmental impact of our corporate activities, and undertake to develop safer products and technologies;

- 2. Make sustained, group-wide efforts to promote resource and energy conservation, waste reduction and biodiversity conservation;
- 3. Perform Environmental, Safety & Health Audit and Quality Assurance Audit as well as work to maintain and improve systems for managing environmental protection, safety promotion and disaster prevention, worker safety and health, and quality management;

- **4.** Comply with all relevant laws, regulations and agreements associated with safety, health, the environment, and chemicals while autonomously establishing administrative rules with the aim of strengthening management capacity, so as to improve environmental, health and safety conditions for society, customers, and employees;
- **5.** Work to ensure and improve the safety of raw materials, products, transportation operations and process safety, and provide product safety information to employees, customers, and others:
- **6.** Promote continuous improvement in security over facilities, processes and technologies, and implement operational safety management programs to ensure the safety

and health of employees and residents of local communities;

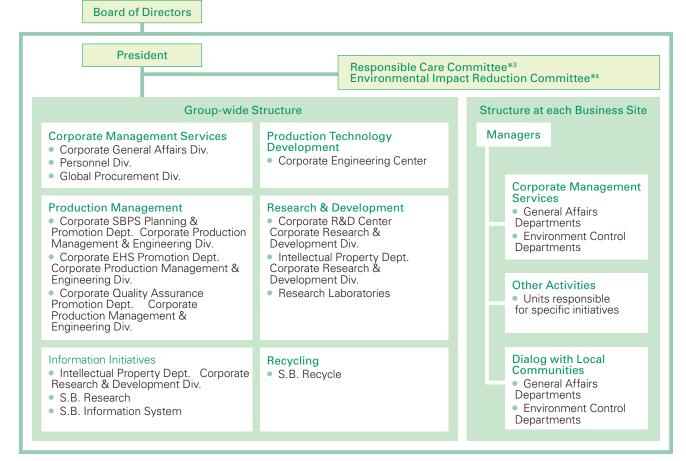
- **7.** Publicly disclose information on the environment, safety and products to and promote dialog with interested parties such as customers, employees and residents of local communities, so as to identify their needs and deepen mutual understanding and trusting relationship.
- **8.** In order to ensure environmental preservation, human health and safety as well as product quality, provide employees with training to develop necessary human resources for that end.
- *1 Established in August 2015. These policies were newly established by revising the Corporate Policies for Safety and the Environment in line with the amendment of the Responsible Care Global Charter.

CSR Promotion Structure

Sumitomo Bakelite's structure for promoting CSR activities centers on the Responsible Care*2 concept. Centered on activities of the Responsible Care Committee and Environmental Impact Reduction Committee, it engages in

various activities through Group-wide cooperation that involves all functions including the head office, administrative divisions, research and development teams, and all business sites.





^{*2}Responsible care means that companies should work to secure the environment, safety, and health in all of their corporate activities from the development of chemical substances through production, distribution, usage, final consumption, disposal, and recycling. They should also make information publicly available on the results of their activities and implement measures to promote dialog and communication with the community. (Japan Chemical Industry Association)

^{*3}Chaired by the officer overseeing the Corporate Production Management & Engineering Div., this committee meets twice each year. It has the objective of promoting Responsible Care activities related to the Company's business operations.

^{*4}Chaired by the officer overseeing the Corporate Production Management & Engineering Div., this committee has two subcommittees—the Life Cycle Committee and Energy Conservation Committee. It meets once or twice each year. Its subcommittees meet twice each year.

Our goals are to promote the reduction of environmental impact caused by our product life cycles and the conservation of energy and resources at our production plants.

Corporate Data

| Name | Sumitomo Bakelite Co., Ltd. |
|--|---|
| Head Office | 5-8 Higashi-Shinagawa 2-chome, Shinagawa-ku, Tokyo 140-0002, Japan |
| President | Shigeru Hayashi |
| Established | January 25, 1932 |
| Capital | ¥37.1 billion(as of March 31, 2016) |
| Number of Shareholders | 15,100 (as of March 31, 2016) |
| Stock Listing (as of March 31, 2016) | Tokyo Stock Exchange, First Section |
| Number of Employees (as of March 31, 2016) | 1,971 (non-consolidated) 6,358 (consolidated) |
| Net Sales (as of March 31, 2016) | ¥88.6 billion (non-consolidated) ¥207 billion (consolidated) |

■ Major Products by Division

Semiconductor Materials

- Epoxy molding compounds for encapsulation of semiconductor devices
- Photosensitive coating resin for semiconductor wafers
- Liquid resins for semiconductor devices
- Substrate materials for semiconductor packages

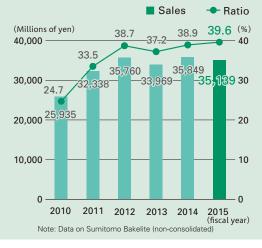
High-Performance Plastics

- Phenolic molding compounds
- Phenolic resins
- Precision molded products
- Synthetic resin adhesives
- Phenolic resin copper-clad laminates
- Epoxy resin copper-clad laminates
- Aircraft interior components

Quality of Life Products

- Medical products
- Vinyl resin sheets and multilayer sheets
- Freshness preserving films
- Melamine decorative laminates and fireproof decorative laminates
- Polycarbonate resin plates
- PVC resin plates
- Design and contracting of waterproofing work
- Biotechnology related products

Sales of Environmentally Friendly Products



Definition

Environmentally friendly products mean products contributing directly or indirectly to reduction of environmental impacts, including resource saving, waste reduction, prevention of environmental pollution, energy saving, and reduction of greenhouse gas emissions, at the Company, for users, or in society.

Method of certification

- Regarding existing products or developed or improved products contributing to reduction of environmental impacts, through discussion with divisions, an internal screening committee will review such products, and if it is considered to be appropriate, such products will be certified as environmentally friendly products.
- Regarding products whose environmental performance is to be publicized, those satisfying the following conditions will be certified as environmentally friendly products.
- Reduction of CO2-equivalent emissions by 10% or more
- b) Reduction impact is objectively assessed by internal LCA review.

■ Fiscal 2015 Sales Composition by Division (Consolidated)



■ Relationships with Stakeholders

Sumitomo Bakelite Group's stakeholders are the same as those defined in the Corporate Governance Code, and complies with the corporate governance code of the Tokyo Stock Exchange as resolved by the Board of Directors. The Sumitomo Bakelite Group emphasizes relationships with stakeholders in promoting business.

Customer

Main Responsibilities

The Group works in good faith to live up to its responsibilities related to such issues as product quality, delivery dates, and prices as well as to quickly respond to customer needs. To achieve this, we have established the CS Committee, which continuously endeavors to enhance customer satisfaction.

Main Methods of Communication

- Communication through the conduct of daily business
- Quality assurance support
- Exchange of information through trade shows, etc.
- Provision of information through our website and customer support.

Shareholders

Main Responsibilities

The Group is committed to distributing appropriate dividends and is taking steps to disclose all relevant information. To attain these goals, we are increasing the rigor of corporate governance, and ensuring the timely disclosure of relevant information.

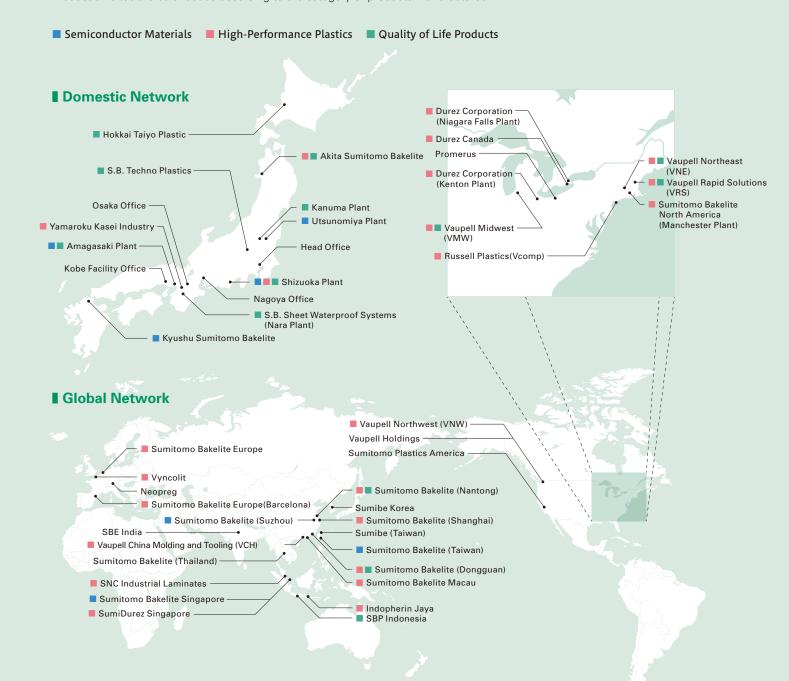
Main Methods of Communication

- Shareholders' meeting
- Presentation of financial results and business outlook
- Media response
- Publishing of Annual Report and shareholder reports
- Information disclosure via the website

Group Companies

The Group operates in 16 countries and regions, including Japan.

Production sites are color-coded according to the category of products manufactured.



Local Communities

Main Responsibilities

Operating as a member of local communities, the Group seeks to contribute to the regions in which it operates while giving careful consideration to environmental protection issues.

We disclose information to local residents by organizing factory tours and proactively participating in local events.

Main Methods of Communication

- Relations with local residents and mutual engagement
- Participation in local events
- Acceptance of next generation internships and site visits
- Participation in the conservation of the local environment and beautification events
- Activities via economic and industry organizations

Government Entit

Main Responsibilities

Besides maintaining rigorous compliance with relevant laws and regulations, the Group endeavors to make information publicly available and engage in two-way communication with local government entities. For this purpose, we are establishing internal mechanisms for monitoring the revision and enactment of laws

Main Methods of Communication

- Engagement with local and regional governments
- Activities and engagement through economic and industry organizations
- Reply to surveys and questionnaires
- Submission of notifications

Business Partners

Main Responsibilities

The Group engages in impartial and fair business transactions and cooperates with its business partners to realize CSR procurement objectives. Accordingly, we maintain day-to-day dialog with business partners to confirm the propriety of transactions and clarify the terms of contracts.

Main Methods of Communication

- Engagement through purchasing and procurement activities
- Engagement through surveys and questionnaires
- Disclosure of information on our website

Employees

Main Responsibilities

The Group strives to create safe and pleasant working environments and provide employees with meaningful and satisfying careers. We are endeavoring to reduce workplace risks by implementing diverse risk assessments, and we are providing all employees with educational opportunities through the SB School.

Main Methods of Communication

- Training of all employees through the SB School
- Perform a variety of human resources development and training
- Corporate-level meetings, labor-management meetings, occupational safety meetings.
- Sharing of information through publication of a monthly newsletter
- President's homepage and intranetWhistleblower system, consultation contact point

Corporate Governance

Aiming to be a Company that is Highly Compatible with Society and the Environment

Strengthening Corporate Governance

As a pioneer in plastics, Sumitomo Bakelite brings "delight" to customers through the creation of new advanced functions from plastics and through the use of its products, with the goal of contributing to value creation for customers and various other stakeholders. For this reason it is important to earn the

trust of society and be needed by society, and therefore, we are establishing efficient and effective structures for achieving management that is highly compatible with society and the environment and for addressing risks facing management, including rigorous compliance.

Management System

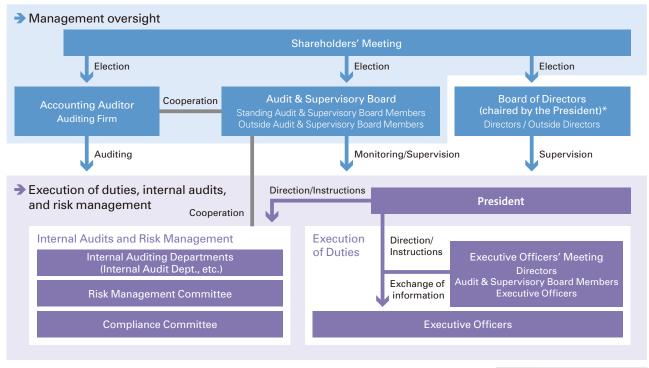
The Board of Directors, in accordance with laws and regulations, including the Regulations of the Board of Directors, makes decisions on the execution of important operational matters and monitors the progress of each director's execution of operations based on reports on important issues concerning the performance of duties by each director. In the case of situations corresponding to potential conflicts of interest involving any director, potential conflicts of interest are required to be reported in advance to the Board of Directors so that the director in question will be excluded from participation in the decision-making process concerning the matter in question. The Board of Directors deliberates on and selects candidates for the position of director from among appropriate persons in terms of business performance, knowledge and experience, personality, views, and motivation, among other factors, so that the right person is selected for the job. Based on this, directors are appointed by resolution of the Shareholders' Meeting. The remuneration of directors (excluding outside

directors) includes basic remuneration (monthly remuneration) and a bonus, with the total amount determined by the Board of Directors within the total amount of remuneration approved by the Shareholders' Meeting.

In addition, the Board appoints executive officers, and the executive officers are responsible for executing their assigned tasks under the direction of the president. As of June 22, 2016, the management structure includes 10 directors and 17 executive officers (including seven who serve concurrently as directors). Of the directors, three are outside directors.

Sumitomo Bakelite is a company with an Audit & Supervisory Board. There are four Audit & Supervisory Board Members, of which two are Outside Audit & Supervisory Board Members. Among our company board members (director, auditor, executive officer), there are 23 male members and 1 female member, with a female board member ratio of 4%.

■ Structure of Corporate Governance (as of June 22, 2016)



^{*}The President serves concurrently as Chairman of the Board of Directors, while the supervisory function of the board is guaranteed by the appointment of outside directors and other measures.

Link -> Corporate Governance Report

Internal Control

The Company has systems in place for ensuring appropriate operations in accordance with its business philosophy. In accordance with the Basic Policy on Internal Control Systems drawn up by the Board of Directors in May 2006, we periodically review the systems and promote various activities to enhance internal control.

With respect to internal control over financial reporting, based on the Company's Basic Rules and Regulations for Internal Control over Financial Reporting, we endeavor to enhance systems for ensuring the reliability of the Group's financial reporting, appropriately operate internal control systems in terms of implementation, assessment, reporting, and correction, and ensure appropriate and timely disclosure of corporate information.

The Comprehensive Guidelines for Internal Control in Consolidated Subsidiaries covers the items that subsidiaries are required to address in establishing their internal control systems and in their subsequent ongoing implementation of control activities.

The internal control over the Group's financial reporting as of March 31, 2016 was assessed and deemed to be effective by Internal Auditing Departments. In addition, as a result of the accounting auditor's audit, it was confirmed that the internal control report presents fairly the result of assessments of internal control over financial reporting.

Link

Basic Policy on Internal Control Systems

Compliance

With Laws, Regulations, and Corporate Ethics

Compliance System

At Sumitomo Bakelite, we emphasize compliance because we recognize that adherence to laws and corporate ethics is integral to the conduct of business.

As part of the framework to ensure the appropriate conduct of business by directors and employees, the Company has established the Compliance Committee. This committee is responsible for promoting compliance through assessments of compliance levels and, as necessary, undertaking related improvements as well as education and training.

■ Compliance System



Code of Conduct for Employees

To familiarize employees with corporate ethics and ensure compliance, the Company has established the Standards of Conduct, a code of conduct for daily activities applicable to all employees. A booklet distributed to all employees contains the Standards of Conduct, and offers guidance about their practical implementation. To raise awareness, meetings are held periodically where the Standards of Conduct are read aloud at workplaces. Our subsidiaries and affiliates, in Japan and overseas, are also implementing similar initiatives.



The booklet on the Standards of Conduct

Articles for Emphasis in Compliance

Workplaces in each department apply compliance to daily operations, decide on the key items for compliance and each prepare Articles for Emphasis in Compliance. Although the Articles differ among workplaces, they are displayed prominently and confirmed with all employees periodically by having them read aloud in unison. Our subsidiaries and affiliates, in Japan and overseas, also undertake similar activities.

Compliance Education Using Cartoons

Every month, the Company's internal publication contains a four-frame cartoon about compliance under the title "The Way to Become a Compliance Master." This cartoon explains compliance in an easy-to-follow style. Past cartoons have been compiled into two booklets, which were distributed to employees to raise awareness of compliance.



Profile of Mamoru-kun

Mamoru-kun joined the company 14 years ago. He's a very active mid-level employee, and everyone relies on him. Based on his experience and the knowledge that he's gained from it, he's able to identify issues in the company and offer appropriate advice. He must already be a compliance master!

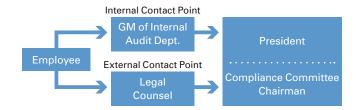
Whistleblower System

We have established a system that enables the Group's employees who have discovered a compliance violation, or suspect that there may have been a violation, to report the matter directly to a designated contact point, on the assumption that reporting to a direct supervisor is difficult. In addition to having an internal contact point at the Internal Audit Dept., employees with such information to disclose can elect to report externally via designated legal counsel. Employees can report anonymously, and the privacy of whistleblowers is rigorously protected to ensure that they are not placed at a disadvantage as a consequence of reporting violations.

Three cases were reported in fiscal 2015, but none of these involved major improprieties, including violations of laws or regulations with respect to discrimination, child labor, forced labor, improper accounting, corrupt practice, or improper or illegal conduct, including violation of antitrust law. The reported matters were dealt with appropriately.

Additionally, subsidiaries and affiliates in Europe, North America and China have set up individual contact points, giving consideration to the local culture and legal customs, and when necessary, the head office of Sumitomo Bakelite will also step in to address matters reported to these local contact points.

■ Flow of the Whistleblower System



Monitoring

In accordance with the Basic Policy on Internal Control Systems, the Internal Auditing Regulations, the Basic Rules and Regulations for Internal Control over Financial Reporting, the Environmental and Safety Auditing Regulations, the Security Export Control Regulations and other company regulations, the Internal Audit Dept., Corporate EHS Promotion Dept., Corporate General Affairs & Legal Dept., and other departments involved in internal auditing audit and assess the compliance of the Company, its subsidiaries and affiliated companies, both in Japan and overseas, mainly by means of site audits. Audits and assessments are conducted from

the standpoint of whether the operations of departments are in compliance with relevant laws and conform to various standards. Departments where issues are identified are required to submit written reports detailing actions taken to resolve the issues.

In fiscal 2015, compliance auditing and assessment was conducted from the standpoints of environment, human rights, occupational health and safety, provision and use of products and services, management of customer information and data, proper accounting, and fair trade, with no significant violations of laws or regulations.

Risk Management

Preventing Risks Before they Occur

Risk Management Structure

Sumitomo Bakelite views risks associated with its business from a broad perspective and is committed to always taking action from a safety standpoint, even with issues that have yet to be scientifically demonstrated. To prevent potential risks from materializing and to minimize losses, the Company has established the Risk Management Committee, which operates on a permanent basis and whose responsibilities are Groupwide in scope. The Risk Management Committee meets on a monthly basis. Also, we instituted our Basic Risk Management Regulations, which establish the fundamental policy regarding the risk management of Sumitomo Bakelite and its Group companies. The Regulations require precise management of diverse risks and implementation of appropriate measures.

In fiscal 2015, the Risk Management Committee deliberated on risks of unfair transactions, such as formation of cartels and bribery of foreign officials, and risks of fire, explosions and other accidents and took action to eliminate these risks.



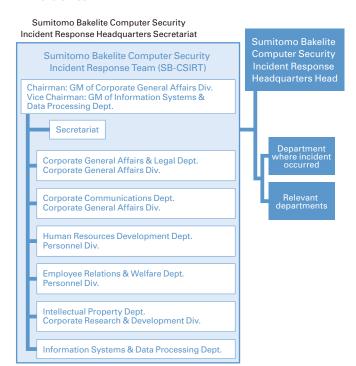
Risk Management Committee

Information Security

We retain an extensive array of personal information on customers, shareholders, employees, and others. In addition to personal information, we also retain trade secrets and other confidential information relating to our business partners. All of this information in our possession is important and must be protected. Therefore, we are committed to ensuring that this information is never leaked.

We also have measures in place to address computer security incidents (cyber attacks, phishing sites, illegal access, malware infections, DoS, and others) in order to prevent information leakages and improve the security of the information systems we operate. In the event of a computer security incident, relevant departments such as the Corporate General Affairs & Legal Dept., Information Systems & Data Processing Dept., Intellectual Property Dept., and Corporate Communications Dept. work together to address the situation. In fiscal 2016, we plan on further raising the bar of our management practices pertaining to confidential information.

System for Addressing Information Security Incidents



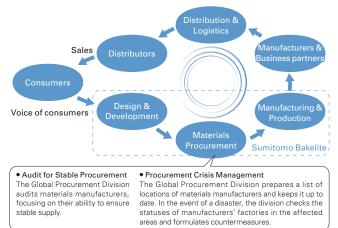
CSR Procurement

Fulfilling Social Responsibilities Together with Business Partners

Basic Approach

Sumitomo Bakelite strives to ensure compliance with the laws, regulations, and social norms of Japan and the other countries and regions in which it operates. We also require our business partners to observe these standards. In principle, the Company concludes a basic contract with each business partner, which requires the contracting parties to fulfill their corporate social responsibilities (CSR). Our criteria for selecting business partners include their CSR and environmental impact reduction initiatives.

■ Sumitomo Bakelite's Supply Chain



Amendments to the Procurement Policy

The Global Procurement Division is in overall charge of the purchasing of raw materials, fuel, and equipment for use at the Company's plants and the Group companies worldwide. Our procurement policy and Green Procurement Guidelines are posted on the Company's website.

In October 2015, we amended our procurement policy. The new procurement policy is now published on the Company's website in Japanese, English, and Chinese. The new procurement policy explicitly requires adherence to the code of conduct of the Electronic Industry Citizenship Coalition (EICC)*, a de facto standard, regarding prohibition of child labor and forced labor, prohibition of bribery, control of conflict minerals, among other

matters. We are working to observe this policy in our procurement activities and asking our business partners to do the same. First, we began obtaining letters of consent from around 30 business partners related to electronic materials that are subject to the new procurement policy, and as of April 2016 we had obtained letters of consent from 31 companies. Going forward, we plan on conducting a survey on the CSR activities of major business partners to check and understand the current status of their efforts.

*See the glossary on page 79.



Selection of Business Partners

When selecting new business partners, the decision to commence transactions is made based on fair and impartial judgment after applying the criteria established by the Global Procurement Division. When commencing transactions, we check whether the Act against Delay in Payment of Subcontract Proceeds, etc. to Subcontractors applies and if it does, we commence the transaction in accordance with this law and the relevant company rules. If we find that this law applies to existing transactions, we immediately take measures to ensure the legality of these transactions under this law.

We have established company rules requiring that we check whether new raw materials comply with chemical substance controls both domestically and internationally, and new raw materials are not adopted unless they conform to these controls. Relevant departments internally work closely together to investigate and make sure that the Company does not violate chemical substance controls.

We are convinced that it is important to establish a relationship of equals based on trust with every business partner and that the transactions should be beneficial to both parties.

Environmental Management

Organized Efforts under the Environmental Management Policy

Environmental Management System

Sumitomo Bakelite relies upon the earth's natural resources and energy in order to do business. However, doing business will generate garbage and air and water emissions. For this reason, we believe it is important for the Company to adhere to environmental laws and regulations, conduct business in an environmentally friendly manner and engage in initiatives that reduce the environmental impact on the entire society through our products and services. The entire Sumitomo Bakelite Group works to conserve the environment under its Responsible Care Policy, with the ultimate goal of contributing to the development of a sustainable society.

To actively reduce environmental impacts, conserve biodiversity, and prevent soil and groundwater pollution, our Responsible Care Committee and Environmental Impact Reduction Committee take the lead in conducting environmental assessments throughout

the entire life cycle, from R&D to raw materials procurement, production, sales and final disposal. Based on the results, each workplace and work site implements appropriate measures.

■ Environmental Management System Diagram



Activities of the Environmental Impact Reduction Committee

The Environmental Impact Reduction Committee works on reducing environmental impacts through its two subcommittees. The Life Cycle Subcommittee continues to focus on life cycle assessment (LCA) at all R&D departments with the aim of establishing production systems with minimal environmental impacts through scientific, quantitative, and objective assessment of environmental impacts from the R&D phase onward. Another priority is the fostering of researchers and development engineers capable of performing LCA and designing energy-efficient products. In fiscal 2016, the subcommittee's activities will focus on expanding the number of environmentally-friendly products, establishing and rolling out guidelines, and applying these to the calculation of Scope 3 emissions.

The Energy Conservation Subcommittee worked to establish across all business sites in Japan a mechanism for continuously soliciting and trying out ideas for saving energy through such means as projects implemented in major plants and voluntary implementation initiatives in business sites. Through these efforts, the subcommittee successfully reduced energy consumption

by as much as 1,440 kL in crude oil equivalent (2,839 t-CO₂). Overseas, energy-saving best practices and approaches are being rolled out across business sites. Furthermore, through energy-saving campaigns in accordance with the Japanese government's requests in the summer and the winter, we achieved results exceeding the targets. In fiscal 2016, each site will continue to implement its plan by establishing energy consumption reduction targets. We will focus on creating a system across business sites in Japan for sharing practices for reducing energy consumption and technical information related to energy saving in order to improve the level of energy-saving technology throughout the

Company; and having the mother plants in Japan provide technical support to their affiliated sites.



LCA training in progress

Topic The Amagasaki Plant's Environmental Communication with Local Residents

The Amagasaki Plant hosts regular meetings with members of the local community in an effort to listen to their views concerning the environment around the plant and make improvements if necessary.

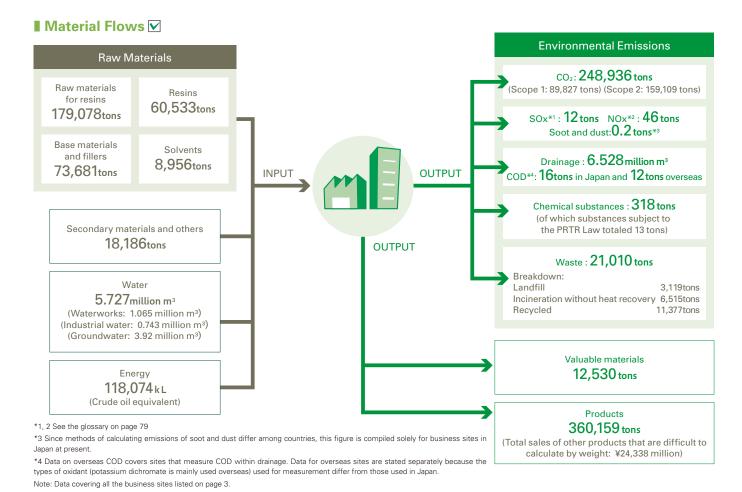
In the event of a noise complaint or other issue, the plant immediately addresses the situation and listens to the views of local residents regarding the community's environment. Based on this approach, the Amagasaki Plant plans and implements environmental activities that are closely in tune with the needs and characteristics of the community.

In fiscal 2015, the Amagasaki Plant invited local neighborhood councils (10 groups totaling 15 individuals) to visit the plant on November 13 where they were given a tour of the plant's production lines and roof-top photovoltaic generation system.

Material Flows and Investments in Environmental Protection Inputs and Outputs

The figure below shows inputs, including raw materials and energy, and outputs that are products and emissions released into the environment.

Since fiscal 2015, data from the Vaupell Group of companies is included in the tabulation of inputs and outputs. The Group is working to minimize its impact on the environment by means of waste reduction and resource saving through promoting more efficient use of raw materials, energy, and water.



Investments in Environmental Protection

The Sumitomo Bakelite Group has compiled data annually on the amounts of investments in environmental protection of all Group companies in Japan since 2000.

In fiscal 2015, we proactively implemented energy conservation measures and spent a total of 383 million yen.

Note: Data covers the time period and business sites in Japan listed on page 3.

■ Amounts of Investments in Environmental Protection in Fiscal 2015 ✓

| Category | Investment amounts (millions of yen) |
|---|---|
| Emissions control | 41 |
| Energy saving | 261 |
| Waste reduction, recycling, and treatment | 80 |
| Total | 383 |

Medium-Term Environmental Targets

In fiscal 2009, Sumitomo Bakelite drew up a medium- to longterm environmental plan up to fiscal 2020, and since then we have been implementing activities under this plan.

Since 2010, we have been participating in the Keidanren's Low Carbon Society Action Plan under the auspices of the Japan Chemical Industry Association (JCIA) and are working to reduce

greenhouse gas emissions. Our results for fiscal 2015 and plan for fiscal 2016 are presented in the figure below. In fiscal 2015, we revised the fiscal 2020 targets set for our overseas sites given the impacts of the Vaupell Group of companies that joined our environmental management initiatives.

Initiatives at Business Sites in Japan

The proactive energy conservation efforts of business sites in Japan resulted in a reduction of CO₂ emissions in Japan. These energy conservation efforts will be continued in fiscal 2016, too, in an effort to further reduce CO2 emissions.

Material loss was largely unchanged from the previous year.

We will promote waste identification and reduction at plants

through MFCA*1.

Chemical substance emissions decreased substantially year on year owing to the introduction of facilities and a further decrease is expected in fiscal 2016. Emissions of substances subject to the PRTR Law included in chemical substance emissions were reduced in fiscal 2015 to 13 tons.

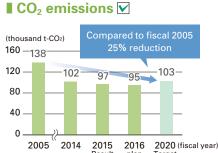
Initiatives at Overseas Business Sites

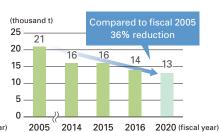
At the Group's overseas sites, CO2 emissions have increased since fiscal 2014 due to the inclusion of emissions from the Vaupell Group of companies. CO2 emissions are expected to slightly increase in fiscal 2016, reflecting higher production output, but energy conservation measures are expected to curb the degree of increase.

Material loss increased slightly due to the impacts of the Vaupell Group of companies, but is expected to decline in fiscal 2016 as a result of recycling efforts. We will continue with MFCA in Japan and overseas alike in an effort to realize further reductions.

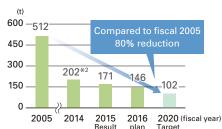
Chemical substance emissions decreased owing to reduced use of chemical substances in overseas business sites.







■ Amount of material loss

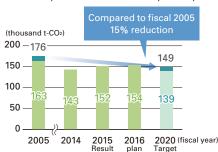


■ Chemical substance emissions

Business sites overseas

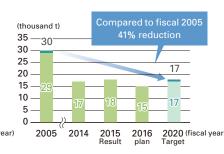
■ CO₂ emissions

Revised portion due to effects of Vaupell Group



■ Amount of material loss

Revised portion due to effects of Vaupell Group



■ Chemical substance emissions

Revised portion due to effects of Vaupell Group



- * Data covering all the business sites listed on page 3.
- * For definitions and the calculation method of CO2 emissions, material loss, and chemical substance emissions, refer to page 66.
- * Regarding 39 substances subject to the PRTR Law included in chemical substance emissions, the total amount released by the Group's sites in Japan amounted to 13 tons and the total amount transferred amounted to 108 tons. For the details of transfer and release of substances subject to the PRTR Law, refer to Data Selection on page 77
- *2 Revisions were made back to fiscal 2011 based on a detailed review of calculations (2014: 237 tons to 202 tons)

Business sites in Japan

Business sites overseas

Environmental Performance

Steadily Reducing Energy Usage and CO₂ Emissions

Business Activities in

Reducing Energy Use and CO₂ Emissions

Sumitomo Bakelite's energy conservation activities are led primarily by the Energy Conservation Subcommittee of the Environmental Impact Reduction Committee.

In fiscal 2015, our domestic business sites were able to reduce both CO₂ emissions and energy usage. Additionally, energy usage per production amount value was largely unchanged year on year, while CO₂ emissions per production amount value decreased slightly.

At our overseas business sites, the CO₂ emissions and energy usage both increased due to the inclusion of the Vaupell Group companies, but each per production amount value declined.

■ Energy usage per production amount value



■ CO₂ emission per production amount value



■ Energy usage per production amount value



■ CO₂ emission per production amount value



Disclosure of Scope 3*1 Data

Last year, the Sumitomo Bakelite Group began calculating and disclosing Scope 3 emissions in the supply chain of the business sites belonging to Group companies in Japan because of the growing importance of understanding CO₂ emissions covering the entire supply chain.

For fiscal 2015, in addition to the five categories of Scope 3 from last year, results in the following categories were also disclosed: Category 2 "Capital goods," Category 5 "Waste generated in operations," and Category 15 "Investments." It was also confirmed that Category 8 "Upstream leased assets," Category 13 "Downstream leased assets" and Category 14 "Franchises" are not applicable. Even with this new scope, the data revealed that similar to last year Category 1 "Purchased goods and services" account for a large portion of CO2 emissions. For next fiscal year and beyond, we intend to calculate and disclose data in other categories and improve accuracy of data in the categories disclosed this year as part of our efforts to reduce CO2 emissions throughout the supply chain.

*1 See the glossary on page 79.

■ CO₂ Emissions in Certain Categories of Scope 3* and Other Scopes (Domestic Sites)

| No. | Category | Emissions (Thousand t-CO ₂ / year) |
|-----|---|--|
| 1 | Purchased goods and services | 357 |
| 2 | Capital goods | 12 |
| 3 | Fuel- and energy-related activities not included in Scope 1&2 | 12 |
| 4 | Upstream transportation and distribution | 17 |
| 5 | Waste generated in operations | 1 |
| 6 | Business travel | 2 |
| 7 | Employee commuting | 2 |
| 8 | Upstream leased assets | Not applicable |
| 13 | Downstream leased assets | Not applicable |
| 14 | Franchises | Not applicable |
| 15 | Investments | 8 |
| | Scope 3 Total | 411 |
| | Scope 1 (All direct emissions) | 44 |
| | Scope 2 (Indirect emissions from consumption of energy) | 53 |

Note: Data covers all the business sites listed on page 3.

Note: Data covering all the business sites listed on page 3.

^{*}Energy usage per production amount value is determined using the following equation: Energy usage per production amount value = energy usage/(production amount x unit price)

^{*}CO2 emissions per production amount value are determined using the following equation:CO2 emissions per production amount value = CO₂ emissions/(production amount x unit price)

Reducing Material Loss

The Sumitomo Bakelite Group is working to increase the efficiency of resource utilization because it regards the reduction of environmental impacts as an opportunity to improve profitability. Through initiatives in material flow cost accounting (MFCA), we are working to reduce not only waste, but material loss, which includes valuable materials.

The Group is implementing measures to attain zero emissions of waste in Japan by promoting recycling and reuse instead of disposing it in landfills or treating it in simple incinerators without heat recovery. In fiscal 2012, all the Group's business sites in Japan achieved zero emissions (certified internally) and are maintaining zero emissions.

The graphs show the volumes of materials subject to zero emissions measures for the base year of fiscal 2005 and for recent years. The volume of landfill waste in fiscal 2015 increased due to the inclusion of Seibu Jushi Co., Ltd. Also, the amount of outsourced incineration increased temporarily due to contractual relationships with treatment providers.

We intend to promote further reduction through analysis of losses in our processes using MFCA.

■ Materials Subject to Zero Emissions Measures in Japan



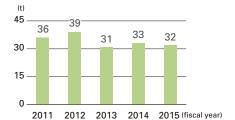
Notes:

- Zero-emissions-targeted substances comprise landfill waste, internally incinerated waste, and externally incinerated waste. No waste was internally incinerated at business sites in Japan from fiscal 2012 onward.
- 2. Data covering all the business sites in Japan listed on page 3.

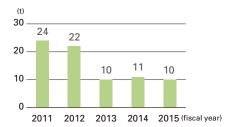
Emissions into the Atmosphere

The Group's business sites in Japan have been promoting a shift of boiler fuel from heavy oil to city gas since fiscal 2004. Fuel conversion was almost completed in fiscal 2013 for areas with access to city gas. Emissions of SOx^{*1} and soot and dust have been low. Emissions of NOx^{*2} have also been low despite slight fluctuations depending on the conditions of combustion of city gas.

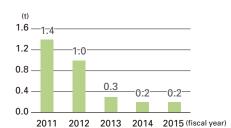
■ NOx Emissions ✓



■ SOx Emissions ☑



■ Soot and Dust Emissions



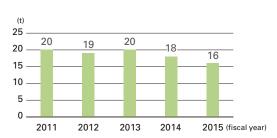
Note: Data covering all the business sites in Japan listed on page 3. *1.2 See the glossary on page 79.

Emissions into the Hydrosphere

Effluent discharged from plants includes pollutants, which are categorized into industrial and household sewage. Treatment facilities, such as high-concentration phenol recovery equipment and activated sludge treatment equipment, and surveillance systems for constant monitoring are in place to ensure compliance with environmental standards and laws and regulations at the national and local government levels. Additionally risk assessments are conducted on leakages into rainwater that also includes cooling water to prevent sudden and unexpected increases in environmental impacts.

As the graph indicates, COD*3, which is used as a water quality indicator, has remained low.

■ COD



Note: Data covering all the business sites in Japan listed on page 3. *3 See the glossary on page 79.

Realizing Safety and Providing Peace of Mind

Conservation of Water Resources

Our plants use ground water (well water), water from the waterworks, and industrial water. In Japan, the rate of ground water usage is high while overseas, the rate of waterworks is relatively higher.

The water used in plants in Japan accounts for 81% of all water used in the Group.

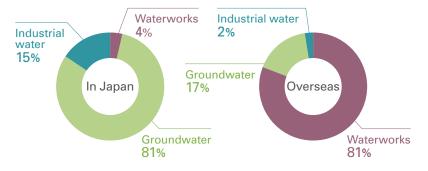
The Group has been continuously working over the years to reduce the amount of water it uses through such measures as promoting the cyclic use of cooling water to avoid wastage. As a result of such reduction efforts, 43% less water was used in fiscal 2015 than in fiscal 2005.

From FY2015, we began surveying the regional watershed risk of all major plants in the Group (11 sites in Japan and 24 sites overseas). We identified the risks facing each of the regions in which the Group operates based on studies using the WRI Aqueduct* tool, and we compiled these risks into charts. Based on the survey results, we are working to preserve water resources more effectively.

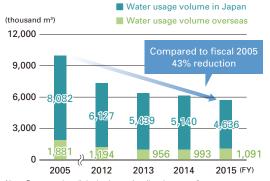
■ Assessment of Water-Related Risk

| | | | Risk level | | | | | |
|--------------|---------------------------------------|-------------------|------------|----------------------|---------------------|-----|-------|--|
| Reg | | Extremely high | | Medium to high | Low to medium | Low | Total | |
| | Number of bases | | | 8 | 3 | | 11 | |
| Japan | Water consumption (thousand m³) | | | 1,270 | 3,353 | | 4,623 | |
| China | Number of bases | | | 5 | 2 | | 7 | |
| (and Taiwan) | Water consumption (thousand m³) | | | 352 | 85 | | 437 | |
| Southeast | Number of bases | | 4 | | 1 | | 5 | |
| Asia | Water consumption (thousand m³) | | 53 | | 126 | | 179 | |
| North | Number of bases | | 1 | 3 | 5 | | 9 | |
| America | Water consumption (thousand m³) | | 1 | 88 | 261 | | 350 | |
| | Number of bases | | | 3 | | | 3 | |
| Europe | Water consumption (thousand m³) | | | 114 | | | 114 | |

■ Comparison of Water Sources Used in Fiscal 2015 ✓



■ Water Usage Volume



Note: Data covering all the business sites listed on page 3

Soil/Underground Water — Pollution Countermeasures

The Group makes efforts to decontaminate soil and groundwater found to be polluted. Risk assessments relating to leakage of chemical substances are also carried out at the Group's business sites in Japan and overseas, and we are moving forward with the creation of a preventative response framework.

No serious leakage-related incidents occurred in Fiscal 2015.

■ Results of Soil and Groundwater Studies, Related Actions, and Monitoring Results

| Site | Results of Investigation | Countermeasures and monitoring results |
|-------------------------------|---|--|
| Amagasaki Plant | Lead was detected by soil content sampling in 2009 and 2010 (max. 500 mg/kg whereas the standard is 150 mg/kg). No groundwater contamination was detected. | Heavy metals exceeding the standard values of the Soil Contamination Countermeasures Law were detected at the business sites on the |
| Akita Sumitomo Bakelite | Lead was detected by soil elution sampling in 2005 (max. 0.032 mg/L whereas the standard is 0.01 mg/L). No groundwater contamination was detected. | left. Monitoring of the groundwater is conducted at these sites every year and their contamination levels have been confirmed to be below standard values. |

Recycling

The Group promotes recycling as a means to make effective use of resources. This recycling includes the recovery and recycling of phenol from waste liquid produced by phenolic resin reactions during the product production process, fine grinding of offcuts from phenolic laminated sheets and decorative melamine resin laminate for use as a filler in phenolic resin molding compounds reuse of molded article by-products (sprues and runners) as raw material for molding materials, as well as reuse of excess sludge from activated sludge effluent treatment equipment as compost (organic fertilizer).

With regard to the recycling of phenol products, we are making practical use of a chemical recycling process through which the products are reused as high value-added raw chemical materials. We were the first in the world to successfully develop and apply a supercritical fluid technology-based chemical recycling method for phenolic resin products.

^{*}A tool developed and published by the WRI (World Resources Institute) to provide information about water-related risks.

Safety and Security

Creating safer working environments with the aim of eliminating accidents and occupational injuries

Occupational Health and Safety Management System

In addition to providing safe and high-quality products to customers, Sumitomo Bakelite is committed to occupational health and safety as they are essential for both a safe work environment and manufacturing processes and for employees to engage vigorously in their daily work. In 2009, the Group's plants and main domestic subsidiaries and affiliates in Japan began pursuing OHSAS18001 accreditation, followed by the Group's overseas subsidiaries and affiliates from 2010.

In 2015 the Kobe Facility Office received accreditation, and a total of 23 business sites have now received accreditation, with 5 business sites and 3 subsidiaries/affiliates in Japan, and 15 subsidiaries/affiliates overseas.

■ Management Structure



Machinery and Equipment Risk Reduction Activities

All new machinery and equipment installed at domestic production plants and subsidiaries and affiliates from 2008 and at overseas subsidiaries and affiliates from 2009, have been designed in compliance with ISO12100. Existing equipment is also subjected to repeated risk assessments in a move to make machinery and equipment intrinsically safe.

Risk Reduction Activities relating to Chemical Substances

From 2012, systematic chemical substance risk assessment has been carried out at plants in Japan and subsidiaries and affiliates worldwide, and SDS*¹-based risk assessment is being used to systematically implement risk reduction measures and prevent impairment to the health of employees.

*1 Refer to the glossary on page79.

Environmental and Safety Audits

Every year we carry out environmental and safety audits to survey and ascertain conditions at business sites in Japan and subsidiaries and affiliates worldwide. For environmental protection, the audits cover preventive measures, legal compliance, energy conservation activities, waste management, and chemical substance management, and for health and safety and security, they cover related measures, legal compliance, and education and training.

During environmental and safety audits we also confirm the number of complaints that each business site received during

the preceding year. In fiscal 2015 no complaints relating to environmental impact were received.



An environment and safety audit being conducted at Indopherin Java

Topic Health and Safety Activities at Business Sites in Japan and Overseas



Receiving the Tochigi Labor Bureau Director-General Encouragement Prize

The Utsunomiya Plant was awarded the Tochigi Labor Bureau Director-General Encouragement Prize in recognition of health and safety activities carried out at the plant including achieving 4 million continuous .hours of operation with zero accidents



Akita Sumitomo Bakelite receiving a Zero Accident Award

President Hayashi of Sumitomo Bakelite Co. Ltd. presented Akita Sumitomo Bakelite with an award for attaining a total of 1 million hours in operation from February 2012 without accidents.



Video-based safety education

A video was created showing the tasks carried out by Group employees that are particularly fraught with danger. The video, which has been prepared in three languages (Japanese, English, and Chinese), is used to educate employees about safety.

Occupational Accident Figures

Trends in the Frequency Rate of Accidents at Sumitomo Bakelite and Subsidiaries and Affiliates Worldwide

The graph on the right shows the overall frequency rate of occupational accidents including those occurring at subsidiaries and affiliates worldwide. In Japan, the number of accidents resulting in lost workdays decreased in 2015, making it the second consecutive year in which the frequency rate*1 decreased.

* Frequency rate = (Deaths and injuries/total working hours) x 1,000,000 Notes: Data cover each calendar year.

Data covering all the business sites listed on page 3

Trends in Occupational Accidents at Sumitomo Bakelite and Subsidiaries and Affiliates Worldwide

Number of employees injured as a result of occupational

The graph on the right shows the number of employees injured as a result of occupational accidents at Sumitomo Bakelite as well as subsidiaries and affiliates in Japan. The number of employees injured as a result of occupational accidents (including both those resulting in lost workdays and those not resulting in lost workdays) decreased in 2015 to the lowest level since 1971, the earliest year for which statistical records are still available. In addition, Amagasaki Plant, Kanuma Plant, and Akita Sumitomo Bakelite achieved one million hours of operation without accidents.

Occupational Accidents by Type

Occupational accidents categorized by type are shown on the graph on the right.

Incidents involving pinching/entanglement and falls and slips accounted for 60% of occupational accidents in 2015. Since the majority of these were due to human error, we are working to enhance employees' awareness of possible dangers through education using safety videos and experience-based safety training machines. Over the last five years 64% of occupational accidents have been the result of the following four causes: pinching/entanglement, falls and slips, cuts and abrasions, and flying/falling objects. Preventative measures targeting technical and human factors are being implemented to reduce the number of occupational accidents.

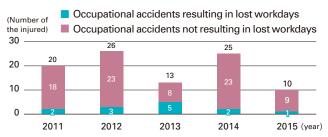
■ Frequency Rate of Occupational Accidents at Sumitomo Bakelite and Subsidiaries and Affiliates Worldwide M

◆ All industries ◆ Chemical industry ◆ Sumitomo Bakelite only Sumitomo Bakelite and subsidiaries and affiliates in Japan

Overseas subsidiaries and affiliates



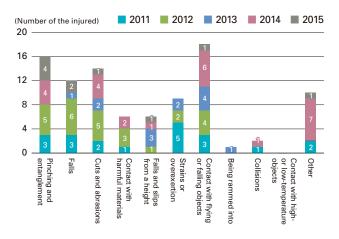
■ Number of Employees Injured as a Result of Occupational Accidents (in Japan) ✓



Notes: Data cover each calendar vear

Data covering all the business sites in Japan listed on page 3

■ Occupational Accidents by Type (in Japan)



Utsunomiya Plant Awarded an Excellence in Safety Prize at the Topic Japan Chemical Industry Association's Safety Awards

Every year, the Japan Chemical Industry Association (JCIA) awards model companies in the chemical industry for exemplary safety-related activities. In recognition of the fact that Utsunomiya Plant had met the JCIA's safety award standard (five years) and that plant employees had united together to promote safety-related activities, the plant was awarded an Excellence in Safety Prize at the 40th JCIA Safety Awards. Staff from Utsunomiya Plant also made a presentation giving examples of their activities at the JCIA Safety Symposium and participated in a panel discussion.



Trends in Occupational Accidents at Overseas Subsidiaries and Affiliates

The Number of Employees Injured as a Result of Occupational Accidents

The graph below shows the number of employees injured as a result of occupational accidents at overseas subsidiaries and affiliates

Although the number of employees injured as a result of occupational accidents with and without lost workdays was higher in 2015 than in 2014 because of the acquisition of Vaupell Holdings, Inc., the frequency rate improved. Note, however, that if one excludes the number of employees injured as a result of occupational accidents at Vaupell Holdings, Inc. from the Group's total, the number was the lowest since 2005, the earliest year for which statistical records are available.

SNC Industrial Laminates and Sumitomo Bakelite (Dongguan) have also achieved 1 million hours of operation without accidents.

■ The Number of Employees Injured as a Result of Occupational Accidents (Overseas)



Notes: Data cover each calendar year.

Data covering all the business sites listed on page 3

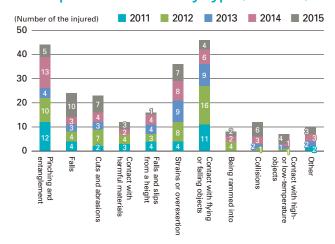
Occupational Accidents by Type

The graph below shows occupational accidents categorized by type.

Although there were no pronounced characteristics discernable in 2015, more than 80% of occupational accidents occurred as a result of human error, as was the case with accidents occurred in Japan. In order to decrease the occurrence of human error, we have employees view English- and Chinese-language safety videos, and are continuing to promote the introduction of hazard prediction training and "pointing and calling."

Since there has been a tendency for a large proportion of accidents to be the result of pinching/entanglement and reckless actions etc., we will work to reduce occupational accidents by making machinery and equipment more intrinsically safe and by implementing ergonomics-based measures.

■ Occupational Accidents by Type (Overseas) ✓



Accident Prevention

Accident Prevention is the top priority of all our business sites. Our objective is to make business sites safer and more secure, and thus earn the confidence of the local community, ensure employee safety, and maintain stable supplies of products to customers.

Each business site formulates action plans and continually implements education and training designed to maintain workplaces that are free of accidents. To ensure preparedness, we have countermeasures in place and conduct training in order to minimize damage if and when accidents do occur.



A nighttime evacuation drill performed at Sumitomo Bakelite



Fire prevention training performed at SNC Industrial Laminates



A fire drill performed at SBP Indonesia

Chemical Substance Management throughout Product Life Cycles

Making Sure Our Chemical Substance Management is Compliant Wherever We Operate Worldwide

Today, businesses around the world are required to ensure a comprehensive management of chemical substances throughout product lifecycles from development through manufacturing, usage, and disposal.

We have 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 minimize environmental impact throughout product life cycles.

Provision of Chemical Substance Data

We are focused on promoting the use of SDSs*¹ across the Group not only for disclosing information related to chemical substances under regulatory control in Japan and overseas, but also for disclosing relevant information voluntarily so as to improve the quality of Group's information disclosure practices. We were among the first to introduce MSDgen*² in response to the GHS.*³ This has enabled us to provide SDSs that are compliant with the regulations of 39 countries, including Japan, in the official languages of those countries.

In 2016, we revised the content of SDSs and labeling for Vietnam to ensure compliance with GHS.

■ Countries in which we have introduced SDSs

| Region | | No. of Countries | Status of GHS implementation | |
|----------|--------------|---------------------|---|--|
| Americas | | 4 | Compliant with the revised HCS* ⁴ in the United States | |
| Гинапа | Non-EU | | C | |
| Europe | EU | 19 | Compliant with CLP*5 | |
| Asia/Oce | Asia/Oceania | | Implemented in 8 countries, including Vietnam | |
| Japan | Japan | | Compliant with JIS Z 7253*6 | |

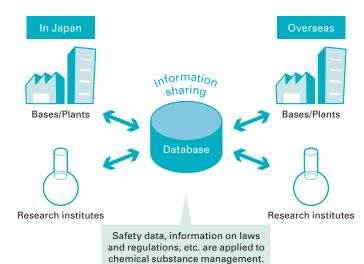
^{*4} HCS: Hazard Communication Standard

Chemical Substance Management System

Creation of a comprehensive chemical substance management system is underway to centrally manage all chemical substances contained in products and raw materials handled by the Group's plants and research laboratories worldwide. Introducing this system allows us to speed up chemical substance-related investigation (into the safety of products and raw materials, regulatory information, etc.) and to provide accurate information. We are now rolling out the system to plants that manufacture molded articles*7 and expanding application of volume tracking management to products for Taiwan and South Korea.

We will continue to enhance our system for managing chemical substances in order to ensure even more meticulous management of chemical substances.

■ Chemical Substance Management System



^{*1, 2, &}amp; 3 Refer to the glossary on page 79

^{*5} CLP: The EU's regulation on Classification, Labelling and Packaging of substances and mixtures

^{*6} JIS Z 7253: Japanese Industrial Standards (JIS) Z 7253. "Hazard Communication of Chemicals based on GHS-Labeling and Safety Data Sheets (SDS)"

^{*7 &}quot;Molded articles" here refers to all molded articles that have a defined shape with dimensions that can be measured. This applies to molded products and parts of devices, electronic components, paper, packaging materials, etc.

Product Liability

Meeting Customer Needs for Safe and Reliable Products

The Group's Basic Policy and System for Quality Assurance

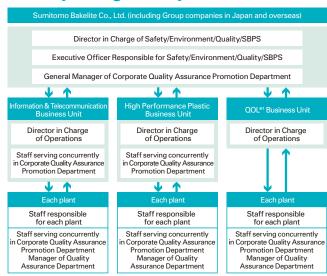
The Group has established quality management systems (QMS) based on ISO 9001 and is continuing to acquire relevant certifications (a total of 36 sites have been certified as of May 1, 2016). To provide products and services that customers can always feel satisfaction and peace of mind in using, all relevant departments collaborate on all processes—from product planning, research, design & development, preparation for production, production, sales & service, to quality assurance—with an awareness of the importance of ensuring the safety of products, and create and appropriately implement and manage frameworks within which to enhance and maintain product safety and quality. We formulated our Quality Management Policy to ensure that every employee of the Group systematically implements quality assurance initiatives in accordance with QMS.

Basic Quality Management Policy for Fiscal 2016

In mind with the "Customer First" and the "Quality First", all Sumitomo Bakelite (SB) Group employees shall contribute to increasing the company's revenue by creating efficient workflow for ensuring quality.

- Quality Improvement Activities of Existing Businesses (Complaints Handling Aimed At Improving Customer Satisfaction*1)
- 2. Reducing Risks to New Businesses
- Improvement of the Entire Total Manufacturing (Monozukuri) Process through Internal Quality Audit and Daily Inspection/Review
- Skill Enhancement for Preventing Risks in Design & Development Process and Each Operational Process

■ Quality Management System



^{*1} Refer to the glossary on page 79

QMS Certification Received

| Certification Standard | Business/products | | | | |
|---------------------------|---|--|--|--|--|
| ISO9001 | Quality of life products (packaging films for food and pharmaceutical products, bio-based products, construction materials, waterproofing products, etc.) | | | | |
| | High performance plastics (included molded articles) | | | | |
| | Semiconductor-related materials | | | | |
| ICO / TC16040 | High performance plastics | | | | |
| ISO / TS16949 | Semiconductor-related materials | | | | |
| ISO13485 | Medical products | | | | |
| AS9100C | Aircraft components | | | | |

■ Overall picture of how the development/commercialization process for new products ought to be



*2 A powerful design optimization method to create designs that are resistant to a wide variety of noise (error factors)

Quality Improvement Activities for Existing Business

We are working to enhance the quality of our existing products through such efforts as ensuring rapid response to complaints, taking measures to prevent reoccurrences of problems, and utilizing quality-engineering to develop robust designs. Crossfunctional responses are made to rapidly solve not only serious but also minor complaints. In fiscal 2015, in addition to these activities, we promoted initiatives to eliminate complaints that had not been resolved for a long time, to reduce the number of

complaints, and to greatly reduce quality failure costs. In order to prevent new occurrences and recurrence of issues leading to complaints and process abnormality, we use "Why-Why Analysis" and "Further Investigation" to identify what has happened, causes, countermeasures, etc. concerning the issues. This information is organized as knowledge that can be shared and used at any time by relevant divisions.

^{*1} Refer to the glossary on page 79

Reducing Risk Relating to New Business

There is a need to improve (optimize) the output quality (degree of perfection) of product designs and process designs when developing new products and to shorten (minimize) the time required for the development process by minimizing rework.

Shortening New-Product Development Periods and Improving Work Quality

In new product development, initial plans are often delayed because of the tendency for a variety of problems requiring reworking to arise. To prevent this, we implement the plan-do-check-action (PDCA) cycle to increase the degree of perfection of design quality and shorten the development period through collaboration of all the divisions concerned from the initial phases. Furthermore, we implement the following to ensure that the problems do not recur in subsequent development work.

- i) Feedback Review Analysis to identify problems through reviews of development processes over time.
- ii) Why-Why Analysis and Further Investigation to identify root causes of the occurrence and out-flowing of problems in terms of technology and management. Why-Why Analysis and Further Investigation are also used to determine why problems were not prevented in terms of organizations, allocation of functions, systems, frameworks, and culture and to identify measures for preventing recurrence and new occurrences.

2 Proactive Use of Various Quality Control Techniques

We proactively use quality control techniques such as Failure Modes and Effects Analysis (FMEA) to predict potential failures

or abnormalities in product design and process design phases in order to prevent them from happening in a proper way; Design Review Based on Failure Mode (DRBFM) that focuses on changes to the design and changes to conditions and the environment in conducting design reviews; and FTA (Fault Tree Analysis) that rationally analyzes accidents and defects in a hierarchical manner to discover root causes and fundamental solutions for preventing recurrence. We also utilize quality-engineering (the Taguchi Method) in order to develop robust designs that are resistant to external factors (variations in customer usage conditions and environmental conditions) and internal factors (deterioration of components through wear, contamination, etc.) that can occur, and manufacturing variations (product and component variations). We use FMEA, DRBFM, FTA and quality-engineering not only for new product development but also for preventing quality-related problems that tend to occur in the 3H situations (Hajimete: when something is performed for the first time; Henkou: when there is a change or difference from the previous time; Hisashiburi: when

something reoccurs for the first time after a long interval).



Training session on quality (basic statistics) provided at Kanuma Plant in March 2016

The "QPiT" System for Processing Quality-Related Complaints

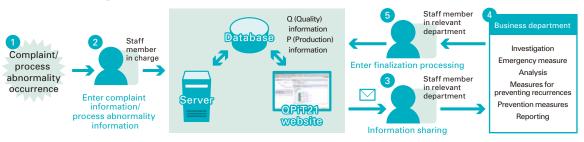
We manage complaints relating to quality using the "QPiT21" system. QPiT21 (Quality & Production information Tools 21) is a system that allows the central management of quality- and production-related information, and it has been built into the Group-wide intranet. The system was introduced in order to accelerate the communication of quality- and production-related information within the Group, facilitate the sharing of information, and encourage the integration and effective utilization of information levels.

With this system it is possible to respond efficiently, rapidly and appropriately to complaints.

Internal Quality Auditing and Daily Inspection/Review

The Corporate Quality Assurance Promotion Department periodically conducts onsite quality audits of the Group's business sites in Japan and of subsidiaries and affiliates worldwide. The objectives of quality audits are to audit the enhancement of customer satisfaction, reduction of design/development- and manufacturing-related risks, compliance concerning product liability, etc., and to correct defects and promote improvements. Quality audits of subsidiaries and affiliates are conducted in cooperation with their mother plants. Quality audits were conducted at eight sites in Japan and overseas in fiscal 2015. We are striving to raise our employees' awareness concerning quality enhancement through having staff of Corporate Quality Assurance Promotion Department participate in quality meetings and design reviews etc. held by each business unit.

■ Quality Management System



When a complaint or process abnormality occurs, an employee enters the information into the OPIT21 system.
This information is sent to all staff members in charge, and the relevant business units investigate the complaint or process abnormality, and provide an emergency response, carry out analysis, implement measures to prevent recurrences and other similar occurrences, report back to customers, etc.

Enhancing Customer Satisfaction (CS)

Initiatives aimed at enhancing customer trust and satisfaction

CS Promotion System

At Sumitomo Bakelite the CS*¹ Promotion Committee comprising the President and other executives determines the basic company-wide policy on promoting customer satisfaction. In accordance with this basic policy, divisions and Group companies work together to share the voice (needs) of the customer and improve business processes based on this.

We invite customers to an annual conference where we brief them on our business and seek to identify their needs through questionnaires and other means in order to deepen mutual understanding and trust.

To enhance awareness of CS throughout the Group and to share best practices we hold CS discussion meetings. We have each division of the Group, including the head office, business departments and plants, issue its own CS Declaration composed of five principles to suit the nature of its business and

environment, and, based on the Declarations, every employee is striving to improve CS.

We positioned 2015 as a year of collaboration by proactively utilizing internal and external resources to enhance CS and promoted activities accordingly. Collaborating in a way that transcends the barriers between different divisions and Group companies makes it possible to grasp customer needs in a multifaceted manner and to develop new products with higher CS levels through product development efforts joined by various teams and projects using new materials. We will also vigorously implement measures to improve CS from the perspective of customers, including revamping the display corners at each of our business sites.

We positioned 2016 as a year of creation and are aiming to create new policies and measures to promote CS.

Utilizing QPiT Information to Enhance CS

We are utilizing various kinds of information accumulated in the OPiT, our Group's system for managing quality-related information such as complaints and customer requests, to enhance CS. There are common threads within complaints and customer requests and such information can be useful for other divisions.

By analyzing the content and trends of such information and implementing measures to address the issues while building a framework to improve these and sharing these internally, a wide range of divisions can work to achieve the aim of improving CS.

Link ⋺

Page 46 The QPiT system for processing complaints relating to quality

Dissemination of Corporate Information

In order to help stakeholders gain a better understanding of the Group's diverse activities, we strive to ensure that all our communications comply with applicable laws, regulations and inhouse rules, and use honest, appropriate, and easy to understand display methods and expressions.

Besides the disclosure of corporate information as mandated by law, we use diverse media to disseminate information, such



Digital signage displayed at an external exposition

as press releases, advertising at airports and train stations, in Shinkansen carriages, at baseball stadiums, signage, and other outdoor advertising, as well as our website.

In addition, we display finished products and digital signage that use our products as components or materials at exhibition corners at our business sites and at some product expositions for helping customers and business partners understand our products better.



An advertisement for the biotope project at the Shizuoka Plant, as seen from the JR Tokaido

^{*1} See the glossary on page 79.

Recruiting and Employment

Recruiting personnel able to perform and demonstrate their capabilities

Number of Group Employees

■ Number of Employees in Japan and Overseas (as of March 31, 2016)

| | Directors | Executive officers | Employees | Temporary employees*1 | Total |
|---|-----------|--------------------|-----------|--------------------------|-------|
| Sumitomo Bakelite | 9 | 10 | 1,971 | 252 | 2,242 |
| Subsidiaries and affiliates in Japan | 25 | _ | 779 | 190 | 994 |
| Overseas subsidiaries and affiliates | 24 | _ | 3,559 | 136 | 3,719 |
| Total | 58 | 10 | 6,309 | 578 | 6,955 |

^{*}The number of employees (consolidated) on page 28 includes Sumitomo Bakelite employees who serve as directors of subsidiaries and affiliates.

■ Employees by Region/Proportion of male and female employees (as of March 31, 2016)

| | | | | | | Southeast Asia | |
|----------|--------|-------|-----|-------|-------|-------------------|-------|
| Employe- | Male | 2,416 | 294 | 605 | 829 | 511 | 4,655 |
| es | Female | 334 | 46 | 468 | 697 | 109 | 1,654 |
| Subtotal | | 2,750 | 340 | 1,073 | 1,526 | 620 | 6,309 |

^{*}The total for Japan includes domestic subsidiaries and affiliates

Employees beyond Retirement Age

Following the passing of the Act on Stabilization of Employment of Elderly Persons, we established a system to enable personnel who have reached the mandatory retirement age of 60 to continue working as contract employees.

By facilitating post-retirement hiring, this initiative harnesses the knowledge, technical skills, and knowhow that employees have accumulated over the course of their careers.

■ Employees beyond Retirement Age **☑**

| | Fiscal 2011 | Fiscal 2012 | Fiscal 2013 | Fiscal 2014 | Fiscal 2015 |
|------------------------------------|----------------|----------------|----------------|----------------|----------------|
| Number of retirement-age employees | 51 | 59 | 37 | 34 | 43 |
| Number of post-retirement rehires | 41 | 50 | 23 | 27 | 31 |
| Rehiring ratio | 80% | 85% | 62% | 79% | 72% |

Note: For the rehiring ratio, the first decimal place was rounded to the nearest whole number.

■ Number of Newly Recruited Employees ✓ (Including new graduates and mid-career personnel)

| Number of people employed | 40 | 37 | 34 | 50 | 38 | 29 |
|---------------------------|----|----|----|----|----|----|
| Male | 33 | 34 | 28 | 42 | 31 | _ |
| Female | 7 | 3 | 6 | 8 | 7 | _ |

^{*}The numbers in the table do not include personnel transferred from domestic subsidiaries and affiliates.

■ Retention of Newly Graduated Recruits (Number of employees who left within three years)

| | Fiscal 2011 | Fiscal 2012 | Fiscal 2013 | Fiscal 2014 | Fiscal 2015 | Fiscal 2016 |
|--|----------------|----------------|----------------|----------------|----------------|----------------|
| Number of newly graduated recruits | 32 | 36 | 30 | 41 | 34 | 24 |
| Number of employees who lef (within three years) | t 2 | 2 | 3 | 0 | 0 | 0 |

Regarding Retirement Benefit Obligations

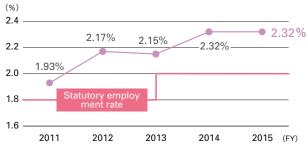
Regarding retirement benefit systems, the Company employs a defined-benefit system in Japan. Overseas, some consolidated subsidiaries concurrently use defined-contribution and defined-benefit systems. The consolidated retirement benefit obligations for fiscal 2015 totaled ¥32.7 billion, ¥28.6 billion of which was for pension funds.

Link > Securities Report (Yuka Shoken Hokokusho (Japanese only))

Employment of People with Disabilities

Sumitomo Bakelite considers the employment of people with disabilities, as stipulated by law, to be an integral part of corporate social responsibility. While giving the necessary consideration to enabling those with disabilities to carry out their work, we endeavor to offer workplaces that are as safe and secure for those with disabilities as they are for others, and that allow employees to continuously hone and cultivate their skills. We are also making continuous efforts to employ new graduates with disabilities by, for example, accepting students with disabilities for internships so as to provide them with opportunities that suit their conditions and workstyle needs.

■ Employment Rate of People with Disabilities over the Past Five Years (As of March 31, 2016)



^{*} The number of directors of subsidiaries and affiliates in Japan and overseas includes Sumitomo Bakelite employees who serve as directors of subsidiaries and affiliates.

¹ Part-time and casual workers

^{*}Since employee recruitment is gender-neutral, the gender composition of the planned intake of new employees for fiscal 2016 is unknown.

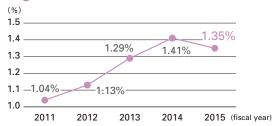
Stakeholder Engagement

Sumitomo Bakelite is working to promote workplace diversity. We consider promoting the advancement of women in particular to be an issue needing to be proactively engaged, and we are working to provide gender-neutral personnel training and create workplaces in which people can play active roles regardless of their gender.

In fiscal 2015 we drafted an action plan aimed at creating an environment in which female employees can actively participate as management staff. The plan covers a four-year period from April 2016 and aims to solve the issues of there being few female management staff and the relatively short length of service of women in career-track positions. We have set the target of doubling the number of female management staff as of the end of March 2014. In order to meet this target we will promote such initiatives as increasing staff awareness of the continued

employment support system for women, reforming the workplace culture, nurturing the career consciousness of female staff, promoting the basic skills proficiency exam (an exam for those who wish to switch to a career-track position), and increasing the number of female recruits.

■ Trends in the proportion of female management staff



Note: Here, "management staff" refers to Sumitomo Bakelite Co. Ltd. employees at or above the level of superintendents and engineers, excluding executive officers. The ratios are values for the end of each fiscal year.

Work-Life Balance

Initiatives to Achieve More Fulfilling Lifestyles

Our Position on Work-Life Balance

Sumitomo Bakelite promotes the creation of workplaces conducive to successful work-life balance of employees.

In 2008, Sumitomo Bakelite formed its Work/Life Balance Labor Study Group to consider the options, formulate policies and commence their implementation. The objectives are:

- To promote flexible approaches to work, while also reducing overtime hours and promoting the full use of annual leave entitlements, and encourage employees to devote the additional time available to worthwhile non-work activities, such as educational pursuits and activities related to family and communities.
- 2 To offer a greater diversity of working styles that benefit employees who must deal with major life events, such as marriage, childbirth, and child rearing, and thus contribute to nurturing the next generation.

In fiscal 2011, Sumitomo Bakelite increased the number of accumulated annual paid vacation days (annual unused paid vacation days accrued) that may be carried over from 30 days to 40. In fiscal 2013, we expanded the application requirements to allow use for participation in volunteer activities and use in half-day increments. In fiscal 2014, we increased the number of days of leave for those attending the birth of their child from three days to five days.

We will continue to implement such initiatives as part of efforts to further promote better work/life balance.

■ Number of Overtime Hours Worked and Days of Paid Leave Taken by Regular Employees

| | Fiscal 2011 | Fiscal 2012 | Fiscal 2013 | Fiscal 2014 | Fiscal 2015 |
|--|-------------|-------------|-------------|-------------|-------------|
| Average number of overtime hours (per annum) | 142.7 | 112.7 | 139.9 | 140.4 | 124.5 |
| Average number of days of paid leave used | 13.6 | 12.8 | 13.3 | 13.1 | 13.3 |

Note: "Regular employees" means Sumitomo Bakelite personnel working during daytime hours, excluding managerial personnel.

Employee Support for Various Life Events

We are focusing on creating an environment in which our employees can achieve their goals for both work and life events (such as childbirth and childcare).

We are also encouraging employees to proactively utilize various programs provided by the Group to help them deal with important life events, and since the implementation of childcare leave and nursing care leave programs, the proportion of employees returning to work after taking childcare or nursing leave has been almost 100%. In fiscal 2015 five employees took

childcare and no employees took nursing care leave. Furthermore, we are implementing more employee support programs than the ones mandated by law to make it easier for our employees to continue working as they go through critical life events.

Next-generation Certification Mark:
"Kurumin"

■ Programs Relating to Childbirth and Childcare

| Childcare Leave Program | Childcare leave can be taken until children reach the age of two (until the day before a child's second birthday) |
|---|---|
| Altering work start times for workers caring for children | Employees with children in the sixth grade at elementary school or lower are able to shift their work start time in 30 minute increments up to either one hour forward or one hour back with the proviso that there is no change to the length of their set work day. |
| Reduced work hours for the purpose of childcare | Employees with children in the sixth grade at elementary school or lower may, if they wish, reduce the length of their work days by up to two hours. |
| Childbirth leave | Female employees can take six weeks' leave prior to giving birth and eight weeks' leave after giving birth |
| Outpatient leave | Pregnant employees can take leave after giving birth for receiving health guidance from a health professional or receiving postnatal checkups. |
| Child nursing care leave | Employees with children in the third grade at elementary school or lower who have been employed at the Company for six months or more can take leave in addition to annual paid leave when any of the following applies. 1. A child is injured or is infected with a contagious disease 2. A child requires a vaccination or a checkup |
| Accumulated annual paid leave | While statutory outpatient leave and child nursing care leave can be unpaid, we allow employees to take these as paid leave, provided that it is within the scope of the 40-day accumulated paid leave limit. |
| Exemption from overtime work | Employees who have children younger than three years old may be exempted from overtime work upon request. |
| Limitation on overtime work | Employees with preschool-age children, if they request, will not be ordered to work more than 24 hours of overtime per month or over 150 hours per year. |
| Limitations on night work | Employees with preschool-age children who made the relevant application cannot be ordered to work at night. |

Understanding the needs of male employees who wish to participate in childrearing

I have a one-year-old daughter who has started going to a daycare center, and from April 2016 I have been using the reduced work-hour option to engage in childcare. I used to feel guilty about forcing the burden of childcare entirely on to my wife, who also works. So I made the decision to discuss the issue with my superior and, in consideration of my work tasks and role, I begun using the reduced work-hour option.

Now that I have to go to the daycare center to pick up my daughter early in the evening, I have had to streamline my working style even more and be more conscious of time management and staying focused on my job.

Thanks to the understanding and cooperation of everyone at my workplace I am able to use my time effectively at work and at home. My wife and I are very thankful that I work at a company that really understands the needs of fathers to participate in childrearing.



Ryutaro Sekine Employee Relations & Welfare Department

Human Resources Development

Fostering personnel who can contribute autonomously to the Group's sustainable growth

The type of personnel we look for

Sumitomo Bakelite seeks to hire and foster people who will share and commit to its Business Philosophy—"Our company places prime importance on trust and sureness, and shall commit itself to contributing to the progress of society and enhancement of people's welfare and livelihood through its business activities." Further, we need people who will embrace the Company's mission to become an excellent global enterprise that helps enhance customer value through its products and services, creating plastics with more sophisticated functions, and can achieve sustainable growth in the advanced chemical products sector. Specifically we seek personnel with the four characteristics listed on the right.

■ Key characteristics of the autonomously motivated personnel Sumitomo Bakelite seeks

- People who are growth-oriented and have the drive to acquire new skills and knowledge necessary for their jobs;
- People with a pro-reform stance who are not satisfied with the status quo, but are always looking for ways to do a better job;
- People with a team-oriented approach who can combine their individual strengths with the strengths of those around them to deliver better results; and
- People with professionalism who possess outstanding skills and know-how and can produce results through their work anywhere in the world.

The Group's in-house training institute, "SB School"

In September 2007, we opened the Sumitomo Bakelite School (SB School) as an in-house training institute.

The aim of SB School is to provide lifelong education and training courses that help the Sumitomo Bakelite Group achieve sustainable growth of business operations while maximizing corporate value. The school offers courses for all grades of employees from all departments. These include "all-employee education" courses that confirm and reinforce employees' awareness of the Company's Business Philosophy as well as fundamental knowledge about such issues as enhancement of CS, compliance, human rights, occupational safety, quality, and environmental protection. The school also systematically plans and implements various other kinds of educational and training courses needed by employees. From April 2015 through March

2016, the cumulative participation in SB School courses was about 18,000 employees, and the number of hours of education provided was approximately 29,000. We will plan and implement an increasingly wide range of programs to develop the capabilities of all employees—the Company's most precious management resource.



Stakeholder

Engagement

■ Education and Training Structure of SB School

| | Al | l-em | ploye | e ed | ucatio | on | Training by corporate departments | Special purpose training | Education for each employee grade | Self-deve | |
|---------------------------|-----------|--------|---------|-----------|---------------|---------------|--|--|--|---------------------------------------|----------------|
| Executive officers | | | | | | | | | Education for executive officers | | |
| Management staff | | | | | | | | | Education for management staff | Self | |
| Department managers | | | | | CS (| _ | | | Education for line managers (advanced) | -deve | |
| Department managers | Bag | | | | enha | Human | | | Education for line managers (basic) | Hopm | 60 |
| Section chiefs | sic po | | | щ | (enhancing | ın rights | Desig/Openialist | Marking and the Francisco | Education for newly appointed section chiefs | nent/E | rresp |
| Supervisors/engineers | licies | Safety | Quality | Environme | | ∃. | <basic education="" specialist=""></basic> | - Writing emails in English - Logical thinking | Education for newly appointed management staff | nglis | Correspondence |
| Leaders (team leaders) | /compliar | γţγ | lity | ıment | customer sati | the workplace | CS, marketing, legal matters, labor, accounting, | - Presentations - Strategic scenario know- | Education for site leaders | Self-development/English conversation | nce courses |
| Sixth year | ice | | | | atisfaction) | place | credit, IT, intellectual property, environment, | how/do-how - Meeting management | Education for mid-career employees | sation | ės |
| Second year | | | | | on) | | quality, manufacturing | - English-language | Education for employees in their third year in the company | training | |
| New recruits | | | | | | | technology, SBPS, technology | presentation skills - Marketing | Follow-up education for new recruits | ing | |
| | | | | | | | XX | | Education for new recruits | | |





Education for line managers (advanced)

Education for new employees

■ SB School Course Participation (fiscal 2015)

Unit: Pareone

| Type of course | Number of participants |
|--|------------------------|
| Education for line managers (advanced) | 19 |
| Education for newly appointed section chiefs | 55 |
| Education for newly appointed management staff | 36 |
| Education for mid-career staff | 20 |
| Education for employees in their third year in the company | 34 |
| Follow-up education for new employees | 33 |
| Education for new employees | 33 |
| Total | 230 |

Topic Manufacturing-oriented SBPS Education

SBPS activities originally began as an offshoot of on-site kaizen (improvement) activities but are now implemented throughout the Company in order to generate the values demanded by customers and society.

The activities are aimed at securing the revenue and safety (personnel, facilities, environmental, and quality) that Sumitomo Bakelite requires to achieve sustainable development. The activities involve setting specific targets (financial, quantitative, and delivery), planning who needs to achieve each of these targets by when, and implementing these plans without delay, meaning the activities are just the same as the daily work tasks carried out by employees.

We believe that, through the ages, technical capabilities, knowledge, experience, and tireless will that each individual has who promotes these activities will always bring about our required results.

Based on this idea, we have organized education programs targeting each employee grade and level as part of the SB School system. The planning and operation of the education is in principle carried out by employees themselves.

Employees receiving training are required to submit reports once the training has ended. These reports make it possible to ascertain how well employees have understood what they have learned and also make it possible to gather employees' opinions about the training and their feedback on how the training could be improved, and this information is reflected in the planning of subsequent training sessions. With regard to



Example of employee grade-specific education

"SBPS Education for new recruits"

Through lecture sessions on the Company's kaizen (improvement) concepts and practical training sessions using assembly kits, new recruits learn about the basics of manufacturing. An on-site learning-based orientation course lasting approximately two-months is also provided.



Example of specialist education "Training course for advanced plant managers"

This is a training course for management staff aimed at fostering advanced plant managers (plant managers, presidents of affiliated companies). The course involves everything from carrying out checks of actual worksites to discovering the root causes of problems and recommending fundamental countermeasures.

Course participants learn about management from a business perspective. As an initial experiment, in fiscal 2015 the course was carried out at a Chinese affiliate for Japanese staff stationed there and for local staff.

employees who participate in specialist training courses, we not only have them submit their reports but also focus on making them implement their learnings in their workplaces and, for that purpose, following up on them with regular verification.

Quality Control Skill Enhancement

We offer 32 quality-training programs at our SB School to increase our employees' awareness of quality, to prevent quality problems, and to improve quality techniques. November every year is designated as "quality month," and quality education via e-learning is provided for all employees.

We continue to implement practical training for effective utilization of FMEA, DRBFM, and quality-engineering* Furthermore, we continue to implement training in Feedback Review Analysis, Why-Why Analysis, and Further Analysis, that can also be used in resolving various problems that occur in the course of daily work as well as for quality problems. We conduct this training at subsidiaries and affiliates worldwide in accordance with the objectives and grades of employees.

*See page 46.

Environmental Education

Our laboratories and plants handle a wide range of chemical substances. We conduct periodic group education programs for employees, including new employees, with the objective of protecting the environment in the vicinity of our business sites and ensuring that employees work in safety. These programs are designed to enhance employees' understanding of the properties of chemical substances and the content of relevant laws and regulations, thus enabling them to handle chemical substances appropriately.

In addition to group education programs, environmental education by e-learning is conducted every year for all employees in June, a month dedicated to enhancement of environmental protection. This education provides an overview of Responsible Care and various other activities we are conducting to enhance employees' general understanding of the Company's environmental and safety activities.

A Message from Earthwatch Japan

We would particularly like companies involved in the chemical industry to be deeply and continuously interested in issues such as the prevention of global warming and reduction of biodiversity. Your further efforts to reduce environmental impacts are indispensable. I would like to ask all of your employees, through participating in the volunteer activities of Earthwatch to help researchers with field surveys, to recognize how time passes in the natural world and the way things are connected and circulated in ecosystems. Anyone can volunteer, and I hope that you deepen your understanding of biodiversity and environmental

sustainability through working as a volunteer, and use that understanding to assess your businesses and to exercise the kind of leadership that can influence your stakeholders as well.

Executive Director Tomoko Nunoi

NPO Earthwatch Institute



R&D Tech Day Held

On November 7, 2015 we held the "2015 SB R&D and Tech Day" to share information about technology across the boundaries of the various departments and businesses that we operate with the aim of enhancing our overall Group-wide technological capabilities. More than 250 staff members from Japan and overseas, primarily from research departments, manufacturing-related departments, marketing, and sales participated in the meeting. After introducing case studies based on 8 different themes, a poster session was held with 9 categories and 53 different themes, as well as mini presentations, and free discussion. The case studies that were introduced were streamed online to over 150 employees at eight business sites in Japan.

We also hold "CS Discussion Meetings" with the aim of enhancing customer satisfaction

levels.



Awarding of the Grand Prize at 2015 SB R&D and Tech Day

Health and Safety Education

In parallel with measures to reduce the risks posed by machinery and chemical substances, we conduct hazard prediction training as well as initiatives, such as "pointing and calling" and making proposals for reducing near-miss accidents. We have "Safety Gyms" held at each production plant to allow employees to learn about safety at their own workplaces, and these are used to enhance employees' safety consciousness and hazard prediction skills

We conduct occupational health and safety education at every level, including the holding of safety meetings in which all plant managers participate to share policies on safety activities, education for new employees including simulation of hazards, and e-learning on the fundamentals of safety for mid-level employees.



Staff undergoing safety action training at a "Safety Gym" (Utsunomiya Plant)



Hazard simulation training for new employees



A safety conference for plant managers

These are held twice a year and are attended by plant managers from Japan and overseas

Human Rights Education

Creating workplaces where employees respect each other's human rights

We strictly prohibit discrimination and harassment in "Our Standards of Conduct" and other policies and this applies throughout the Group. Employees receive education about the Standards of Conduct when they are recruited in an effort to raise awareness of human rights issues.

We consider and implement the kind of human right education that we ought to provide as a company, and urge each employee to gain a proper understanding of discrimination and harassment in society as a whole. We aim to create pleasant and cheerful workplaces in which employees respect each other's human rights.

Health Management

Enabling employees to continue working with healthy bodies and minds

Sumitomo Bakelite strives to create workplaces conducive to the maintenance of employees' good health, both physical and mental. Our employee health management activities are primarily based on the results of regularly scheduled health checks. In particular, employees over 30 years old are entitled to receive cancer screening (stomach and colon) and those over 40 years old can receive abdominal ultrasonography as well. By ensuring that employees properly understand the results of health checks and receive timely diagnoses and guidance from in-house and external industrial physicians and other medical staff, the Company is contributing to the prevention or amelioration of lifestyle diseases. In addition, employees engaged in work that involves use of organic solvents and specified chemical substances receive special health checkups twice a year for early detection and prevention of health problems attributable to occupational diseases. We also provide opportunities for employees to receive health consultations at their own discretion with industrial medical staff who offer advice on physical and mental health issues.

In fiscal 2012, we began offering health guidance to employees to help them avoid lifestyle diseases such as diabetes, hypertension,

and dyslipidemia. In addition, based on the awareness that the preventive efforts of each employee are important for health enhancement, we are also stepping up employee education concerning health-related matters. With regard to mental health, recognizing the importance of detecting a mental disorder in its early stage, we are conducting "line care" courses for managerial personnel who are responsible for managing other employees in order for them to increase and refine their knowledge about mental health.

With the provision of stress checks being made compulsory, from fiscal 2015 we began providing stress checks, and employees who so wish to can undergo consultations with a doctor. We are also working to put in place necessary measures based on the results of the health checks and enhance workplace environments based on the results of group analysis.

We have also formulated a program to support people with mental health problems. The program is designed to help them return to work and to prevent relapses through a concerted effort of their superiors, people in charge of labor affairs, industrial physicians, and healthcare staff.

Labor-Management Relations

We aim to grow our company and create pleasant workplaces based on labor-management cooperation

We recognize that pleasant and satisfying working environments are not only intrinsically desirable but also contribute to the development of an enterprise. Moreover, good labor-management relations and the collaboration they engender are essential ingredients of such working environments.

Currently, all of our employees are members of the Sumitomo Bakelite Union. Corporate-level meetings of the Company's senior executives and representatives of the Sumitomo Bakelite Union are held twice a year at the head office. These meetings are valuable opportunities to cultivate favorable labor-management relationships by sharing frank views on the business environment and the Company's operations. Major plants also hold monthly

labor-management meetings at which information about conditions in each department is shared.

With a view to creating safe and comfortable workplaces through labor-management collaboration, we hold annual labor-management meetings on occupational health and safety, which are attended by Sumitomo Bakelite Union members in charge of occupational safety at facilities across Japan. Through a frank exchange of opinions, management and labor deepen mutual understanding.

These ongoing initiatives help to further deepen long-standing labor-management relations. The Sumitomo Bakelite Union participation ratio is 100% on a non-consolidated basis.

Relationships with Shareholders and Investors

Ensuring Appropriate, Proactive Information Disclosure

Basic Policy on Profit Distribution

Sumitomo Bakelite is working actively to enhance our corporate value and regards returning a portion of profits generated by our businesses to shareholders as one of its most important management priorities. In allocating profits, we take into consideration the balance with retained earnings that will be

used for the future development of the business, such as R&D expenditures, capital investment, and M&A. We seek to pay stable dividends in line with consolidated financial performance. In line with the above basic policy, we paid dividends for the year ended March 31, 2016, of 10 yen per share.

Information Disclosure

We carry out appropriate and timely disclosure of corporate information in accordance with the disclosure standards of the Tokyo Stock Exchange and in accordance with the "Information Disclosure Guidelines" in which we have set our basic approach to disclosing information to stakeholders including investors and employees simultaneously, fairly, and accurately.

We also make efforts to proactively disclose our information such as financial results, general shareholders' meeting, along with information disclosed in the manner as stated in the above paragraph, through posting them on our website.



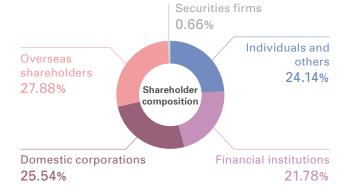
Business Report

Encouraging Exercise of Voting Rights at Shareholders' Meetings

Through such initiatives as enabling shareholder to vote their right by electronic means, sending early and posting on our website convening notices for general shareholders' meetings, we are working to create an environment that makes it easier for shareholders to exercise their voting rights.

Stock Information and Shareholder Composition (as of 31 March 2016)

Total number of shares issued : 262,952,394 Total number of shareholders: 15,100



Relations with Local Communities

Contributing to the Development of a Local Community as its Member

Environment-Related Initiatives

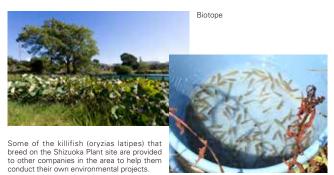
Biodiversity Conservation Initiatives

The environmental impact of the Group's drainage water etc. has an effect on organisms, and some of our factories provide habitats for endangered species within their grounds. We therefore believe that we can contribute to the protection of biodiversity through enhancing the environments at our business sites.

In addition, as a promotion partner of "The Declaration of Biodiversity by Nippon Keidanren," we are implementing measures to ensure that our operations fully accord with the letter and spirit of that declaration.

Sumitomo Bakelite Co. Ltd. possesses land in Fujieda City, Shizuoka Prefecture which serves as the site for the Shizuoka Plant, a factory that produces phenolic resin, etc. Although the land is not an officially designated conservation area, an ecological study in fiscal 2011 showed that, an IA-rated endangered type of killifish was breeding on the site. As a result of this, it was

determined that biological diversity found in the land had a high conservation value and a five-year plan was drafted to develop a biotope on the site from 2012. The biotope now takes up approximately 5% of the area of the site.



Topic Development of the Shizuoka Plant Biotope Project

Based on the results of a biodiversity assessment conducted in fiscal 2011, we started developing a biotope at the Shizuoka Plant in fiscal 2012 according to a five-year plan. The biotope is being developed in line with the natural environment of the Shida Plains on which the Shizuoka Plant is situated and with consideration given to the area's ecosystem and its current state.

Our aim is to create a wetland environment to provide a habitat for visiting dragonflies and kingfishers to congregate and breed. Killifish, an IA-rated endangered species, have been confirmed to be breeding in the biotope and we have cooperated with the environmental activities of other companies by providing them with some of the killifish. The Donguri Woods and Tamamushi Grove will be now inhabited by jewel beetles, butterflies, stag beetles, wild birds, and so on.

In fiscal 2015 we created a floating island and a path leading through the biotope. During the biotope observation event in October employees and their families as well as former employees living nearby were invited to make "nature handicraft" *1 with professor Tatsumi Yamada of Tokoha University, who oversees the biotope project, and students from the university. "Nature handicraft" is one way we are making use of the biotope.

In addition to the observation for employees, we have also opened the biotope for observation by guests from the Fujieda City Office and the Belgian Embassy. We are hoping to proactively utilize the biotope as a place for us to communicate with people from outside the company through such efforts as holding events in conjunction with the local community.

In fiscal 2016 we decided on giving the biotope the nickname "Ikoi no Mori" (Calming Woods).

We intend to create a "biotope club" made up of our employees, to work independently on environmental improvement and observing organisms.

*1 Using natural materials such as acorns, nuts, and fallen leaves to create animals and





An observation event attended by Shizuoka Guests from Fujieda City Office participating

An observation event attended by Shizuoka Plant employees and

Guests from Fujieda City Office participating in an observation event Company biotopes can contribute greatly to the biodiversity of the surrounding environment. Factories have until now been seen as facilities that destroy the local environment and scenery, and I think it is wonderful that they can now serve their communities by providing

important bases for networks of organisms to form. Sumitomo Bakelite's biotope provides a habitat for a large number of indigenous killifish with DNA that is unique to the region, and I hope it will prove useful in educating local residents and children about the environment.

> Professor Tatsumi Yamada Socio-Environmental Studies Department Tokoha University



Initiative to Protect Forest Ecosystems

Business Activities in

Sumitomo Bakelite contributes to conservation of biodiversity by protecting forest environments through supporting forest thinning projects (see p.67 for details) and forestation activities.

Our business site in Indonesia (Indopherin Jaya) carries out mangrove planting activities in order to protect mangrove forests, which provide habitats for a wide variety of marine organisms. The mangrove planting not only helps conserve the environment but also improves the living conditions of local residents and prevents erosion of beaches and coastlines. Sumitomo Bakelite works

together with several other companies on a forestation project and in fiscal 2015 we planted approximately 60 trees. We will continue to work on biodiversity conservation projects that suit the

needs of the environments in which our business sites are located.



Planting mangrove trees

Utilizing Disused Plant Land for Solar Electricity Generation

We are leasing unused land adjacent to Akita Plant (approximately 10 hectares) to a solar power generation business. The lease contract is for 20 years from September 2015, and allows IP Akita Solar Power Generation Co., Ltd. to install solar power panels on the land

Akita City is a major center of renewable energy, and the solar power generation project on the unused production plant land we have provided is one of the largest renewable energy projects in the city.

■ Outline of the Akita Solar Power Generation

| Location | Akita City, Akita Prefecture |
|---|--|
| Estimated annual generating capacity | 5.01MV (module based) |
| Power purchaser | Tohoku Electric Power |
| Completion of construction/commencement of operations | September 2015 |
| Power generation company | IP Akita Solar Power Generation Co., Ltd. |
| Electricity generation capacity | 18,592 solar panels (these generate the equivalent of the electricity consumed annually by 1,660 average households) |



Aerial photograph of the facility

Environmental Conservation and Beautification Activities in the Surroundings of Plants

We are working to conserve and beautify the areas surrounding each of our production plants by cooperating with local environmental conservation activities and campaigns against illegal dumping of waste as well as cleaning and beautification events organized by local communities.



Plant employees participated in a day to clean up the industrial park in which the plant



Amagasaki Plant

Plant employees were asked by the city office to participate in the city's project to splash water on the ground (as a heat reduction measure)



Shizuoka Plant

Plant employees participated in a riverbank cleanup organized by a municipal environmental conservation association

Initiatives Relating to Fostering the Next Generation

Welcoming Next Generation Internships and Factory Visits

In order to support the growth of the next generation of students we proactively accept student interns and also welcome students to company briefings and site visit events (factory tours) to aid their understanding of our business and the work carried out at our production plants.



The Ota Market's fruit and vegetable

Students from Tokyo University of Agriculture's Post Harvest Studies Research Laboratory visited the center to learn about ation film and the use of P-Plus to maintain the freshness of produce



Akita Sumitomo Bakelite Students and teaching staff from Akita Engineering visited the plant.



Sumitomo Bakelite Europe (Barcelona) Students majoring in chemistry visited the

Support for Education of the Next Generation (Fujieda City Science Education Support Project)

We are taking the lead in providing support for the education of the next generation as part of an industry-government-academia partnership in cooperation with other companies with production plants located in and around Fujieda City.

The Fujieda City Science Education Support Project, which, being a long-term project, is uncommon in Japan, was held for a seventh year in fiscal 2015. The aim of the project is to communicate to junior high school science teachers about how science-based technology is used in familiar industries so that they can use the knowledge to stimulate students' interest in science through classes and school counselling.

In a survey of participating science teachers at a networking event, 90% of teachers were able to obtain useful information for their classes



Participants of the seventh science teacher networking event tasting different types of tea (at Mitsui Norin Co., Ltd.)

Social Initiatives

Contributing to the Society

We make donations through reputable organizations that benefit worthwhile causes in such areas as schools and education, social welfare, science and technology, culture and the arts.

In May 2015 six Durez Canada employees and members of their families participated as "Team SBHPP" in the Wings for Life Run,*1 a charity running event supported by Red Bull that raises money for research into spinal cord injury treatment.

*1 This event was held simultaneously in 35 places in 33 countries and all of the proceeds were donated to the NPO "Wings for Life," which supports research into spinal cord injury treatment.



Charity running event participants (Durez Canada)

Relations with Local Residents and Participation in Local Events

We are working to enhance the welfare of local communities by proactively interacting with local residents and participating in local events to deepen our ties with them, as well as engaging in volunteer activities and making donations.



An EV bus tour for local residents (Akita Sumitomo Bakelite)



Local children invited to dinner after Ramadan (SRP Indonesia)



Employees participating in a volunteer tulip bulb planting activity

Site Report

Below you will find detailed information about each business site and affiliated company.

Japan

Kobe Facility Office



| Address | 1-1-5 Murotani, Nishi-ku | , Kobe-shi, Hyogo | |
|---|--|-------------------|----------------------------|
| Number of employees | 65 | | |
| Commencement of operations | 1991 | | |
| Total site area | 16,530m [†] | | |
| | Environmental | ISO 14001 | December 2003 |
| Month/year of management system certification | Occupational Health and Safety | OHSAS 18001 | September 2015 |
| | Quality | ISO 9001 | 2010 (S-BIO Business Div.) |
| Principal R&D themes | Development of high-pe technologies for bioplas | | |

Our office is wholeheartedly engaged in reducing waste, recycling, cleanups, and disaster prevention drills within the complex. The R&D Center is reducing environmental impacts using high yield resin synthesis and carefully calculated process design. The S-BIO Business Division, too, is working to mitigate environmental impacts by developing testing and diagnostic materials and improving the yield of resin made from bio-materials.





Shizuoka Plant



| Address | 2100 Takayanagi, Fujieda-shi, Sh | izuoka | | |
|------------------------------------|---|------------------------|--|--|
| Number of employees | 685 | | | |
| Commencement of operations | 1962 | | | |
| Total site area | 287,000 m ² | | | |
| | Environmental | ISO 14001 | March 1999 | |
| Month/year of | Occupational Health and Safety | OHSAS 18001 | March 2008 | |
| management system certification | Ovelie | ISO 9001 | 1995 (laminates, PM, PR, molded products) | |
| | Quality | ISO/TS 16949 | 2007 (laminates, PM, PR, molded products) | |
| Principal R&D themes | Epoxy resin copper-clad laminates phenolic resins, thermoset moldin formalin, molded products and die | ig compounds, melamine | resin decorative laminates, | |

We are pursuing initiatives to reduce the environmental burden of all our processes from product development through to manufacture of finished products. The target of the three-year plan is a 50% reduction in negative costs by MFCA, and we achieved a 22% reduction in the second year. We will promote further reductions and aim to achieve 50% in 2016. By promoting early achievement of the energy conservation themes and the reduction of waste and airborne emissions of solvents, the Kobe Facility Office is aspiring to be an eco-friendly plant.

Deputy Plant Manager Toshihide Kanazawa



Kanuma Plant



| Address | 7-1 Satsuki-cho, Kanuma-shi, Tochig | i | |
|----------------------------|--|-------------|------------|
| Number of employees | 355 | | |
| Commencement of operations | 1970 | | |
| Total site area | 75,878 m ² | | |
| Month/year of | Environmental | ISO 14001 | March 2000 |
| management system | Occupational Health and Safety | OHSAS 18001 | March 2008 |
| certification | Quality | ISO 9001 | 2003 |
| Principal R&D themes | Hard resin sheets made from polyca PVC, etc.; waterproofing materials i products | | |

The Kanuma Plant focuses on reducing power consumption as part of its energy conservation activities, and in 2015 we achieved a reduction of 434,000 kWh. In fiscal 2016, we will continue to bolster these energy conservation activities and plan to reduce power consumption by 2% year on year (446,000 kWh).We commenced full-scale use of effluent treatment equipment in 2015, which treated approximately

1,400 tons of effluent. The year 2016 represents the final year of our plan to reduce material flow cost by 50% within 3 years. Our efforts require teamwork involving all employees.

Plant Manager

Plant Manager Haruhisa Toda



Utsunomiya Plant



| Address | Address: 20-7, Kiyohara Kogyo Danch | ni, Utsunomiya-shi, Toch | igi |
|------------------------------------|--|--------------------------|-----------------------|
| Number of employees | 324 | | |
| Commencement of operations | 1984 | | |
| Total site area | 99,000 m ² | | |
| | Environmental | ISO 14001 | December 1997 |
| Month/year of management system | Occupational Health and Safety | OHSAS 18001 | March 2008 |
| certification | 0. 13 | ISO 9001 | 1991 |
| | Quality | ISO/TS 16949 | 2006 |
| Principal R&D themes | Paste for die bonding, liquid resins for materials for semiconductor package | | conductors, substrate |

The plant has developed a culture that stops anomalies and never leaves anomalies alone. We ensure the environment of the surrounding community is preserved and continually take steps to prevent pollution. We comply with all laws, regulations, agreements and rules and aspire to be a plant that acts with honesty and is trusted by both customers and the local community.

Plant Manager Keisuke Kurachi



Amagasaki Plant



| Address | 2-3-47, Higashi-Tsukaguchi-cho, | Amagasaki-shi, I | Hyogo | |
|------------------------------------|--|------------------|--|--|
| Number of employees | 471 | | | |
| Commencement of operations | 1938 | | | |
| Total site area | 46,000 m [*] | | | |
| | Environmental | ISO 14001 | October 1998 | |
| Month/year of | Occupational Health and Safety | OHSAS 18001 | October 2009 | |
| management system certification | | ISO 9001 | 1994 (film sheets and cover tape) | |
| Cordinadaon | Quality | ISO 13485 | 2016 (medical devices product warehouse) | |
| Principal R&D themes | Multilayered films for food packaging, PTP materials for pharmaceuticals, tapes for mounting electronic components | | | |

Everyone at the plant takes part in the "ecoE~NE-2020" project to conserve energy and reduce environmental impacts. As for material loss, every year we set higher targets and work on reducing this loss. Furthermore, we implement risk assessments on the environment and safety, make an effort to eliminate injuries and accidents before they happen through risk evaluations and risk measures.

Plant Manager Hidehiro Morita



Affiliated Companies in Japan

S.B. Sheet Waterproof Systems Co., Ltd. (Nara Plant)



| Address | 1-2 Techno Park, Nara Kogyo Danchi, | Sugawa-cho, Gojo-shi, | Nara |
|----------------------------|-------------------------------------|-----------------------|------------|
| Number of employees | 62 | | |
| Commencement of operations | 1991 | | |
| Total site area | 20,357 m [*] | | |
| Month/year of | Environmental | ISO 14001 | April 2000 |
| management system | Occupational Health and Safety | OHSAS 18001 | March 2008 |
| certification | Quality | ISO 9001 | 2003 |
| Principal R&D themes | Waterproof sheets | | |

This plant produces waterproofing sheets made with synthetic resin that are used for housing and building construction. We are working to mitigate environmental impacts by reducing material flow costs and improving energy efficiency through improvement and evolution of our production processes. Our goal is to be a plant that is trusted by the community for seriously addressing environmental issues and ensuring that

all employees abide by relevant laws, regulations and rules.

Plant Manager Masamori Miura



Kyushu Sumitomo Bakelite Co., Ltd.



| Address | 40-1 Oaza-Kamizakai Aza-Mizumachi | , Nogata-shi, Fukuoka | |
|------------------------------------|--|---|-----------------|
| Number of employees | 270 | | |
| Commencement of operations | 1972 | | |
| Total site area | 50,000 m ² | | |
| | Environmental | ISO 14001 | December 1998 |
| Month/year of management system | Occupational Health and Safety | OHSAS 18001 | December 2007 |
| certification | Olite | ISO 9001 | 1994 |
| | Quality | ISO/TS 16949 | 2010 |
| Principal R&D themes | Epoxy molding compounds for encaps devices, liquid photosensitive coating | sulation of semiconducto gresins for semiconduct | or or wafers |

The plant produces environmentally conscious epoxy molding compounds and wafer coating resins. In fiscal 2016, we will step up our initiatives to halve material flow costs, to improve energy efficiency, and carry out activities to reduce environmental impacts, in an effort to achieve continual improvement. Furthermore, we will research life cycle assessment activities and pursue joint efforts with other plants so that we can become a company that is trusted by customers and the local community.

President and Representative Director Keisuke Kurachi



Yamaroku Kasei Industry Co., Ltd.



| Address | 19-10 Katayama-cho, Kashi | iwara-shi, Osaka | |
|------------------------------------|------------------------------------|-----------------------------|-----------|
| Number of employees | 45 | | |
| Commencement of operations | 1948 | | |
| Total site area | 5,411 m ² | | |
| Month/year of | Environmental | ISO 14001 | June 2005 |
| management system certification | Quality | ISO 9001 | 2003 |
| Principal R&D themes | Phenolic molding compour compounds | ds, melamine phenolic resir | molding |

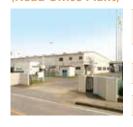
Our Company is committed to the realization of our Medium Term Plan for Environmental Impact Reduction through continued efforts in promoting energy saving activities as well as environmental impact reduction based on MFCA as our management index. In addition, we intend to further implement pollution countermeasures in response to an increasingly critical need for environmental preservation, and take a proactive role in

preservation, and take a proactive role in our local community through participation in community events (such as Yamato River Cleanup campaign, etc.)

President and Representative Director Masaei Yamada



S.B. Techno Plastics Co., Ltd. (Head Office Plant)



| Address | 300-2, Motohara Kamikawa-cho, Kodama-gun, Saitama |
|-------------------------------|--|
| Number of employees | 31 |
| | |
| Commencement of operations | 1964 |
| | 1964 13,000 m ² |
| operations | |

S.B. Techno Plastics Co., Ltd. (Kitsuregawa Plant)



| Address | 560-1, Saotome, Sakura-shi, Tochigi |
|----------------------------|--|
| Number of employees | 13 |
| Commencement of operations | 2002 |
| Total site area | 3,638 m ² |
| Principal R&D themes | Safety helmets, injection molding products |

We were able to achieve our fiscal 2015 target of a 50% reduction in negative costs by MFCA one full year ahead of schedule. In fiscal 2016, we plan on making steady progress with energy conservation proposals made based on an assessment carried out by The Energy Conservation Center, Japan.

President and Representative Director Shunichi Kuribara

Akita Sumitomo Bakelite Co., Ltd.



| Address | 27-4, Aza Nakashima-shita, Souzen-machi, Tsuchizakiminato, Akita-shi, Akita | | |
|------------------------------------|--|-------------|--------------------------|
| Number of employees | 195 | | |
| Commencement of operations | October 1970 | | |
| Total site area | 255,568 m ² | | |
| | Environmental | ISO 14001 | January 2001 |
| Month/year of management system | Occupational Health and Safety | OHSAS 18001 | September 2008 |
| certification | Our life. | ISO 9001 | 2010 (bio), 2010 (resin) |
| | Quality | ISO 13485 | 2005 (medical) |
| Principal R&D themes | Medical products and laboratory wares, phenolic resins, formalin and adhesives, negative electrode materials | | |

The plant manufactures medical products, laboratory wares, phenolic resins, and negative electrode materials. In fiscal 2016, we proactively implemented energy-saving measures under a revised organizational structure, along with enhancing waste reduction through a plant-wide MFCA in order to minimize environmental impact. We organize community cleanup events as well as factory tours to contribute to the local community.

President and Representative Director Kazuhisa Hirano



Hokkai Taiyo Plastic Co., Ltd.



| Address | 2-763-7, Shinko-Chuo, Ishikari-shi, Hokkaido | | |
|---|--|-----------|------------|
| Number of employees | 28 | | |
| Commencement of operations | 1964 | | |
| Total site area | 13,650 m ² | | |
| Month/year of management system certification | Environmental | ISO 14001 | April 2005 |
| Principal R&D themes | Polyethylene pipes, polyethylene films | | |

We produce and sell polyethylene pipes and films. In addition to our existing efforts in waste reduction and switching over to LED lighting, since last year we began to recycle factory scrap materials and make them into garbage bags made available to residents of Hokkaido. With the aim of passing on a lush, green environment to the next generation, each and every one of us at our Plant is passionately committed to environmental preservation activities.

President and Representative Director Masatoshi Yamasaki



Overseas: China, Macau, and Taiwan

Sumitomo Bakelite (Suzhou) Co., Ltd.



| 140 Zhongxin Avenue West, Suzhou Industrial Park, Suzhou, Jiangsu, 215021, P.R. China | | |
|---|---|--|
| 192 | | |
| 1997 | | |
| 30,000 m ² | | |
| Environmental | ISO 14001 | November 2001 |
| Occupational Health and Safety | OHSAS 18001 | November 2010 |
| 0. 15 | ISO 9001 | 1999 (EME), 2015 (CRM) |
| Quality | ISO/TS 16949 | 2006 (EME) |
| Epoxy molding compounds for encapsulation of semiconductors, die attach pastes | | |
| | China 192 1997 30,000 mf Environmental Occupational Health and Safety Quality Epoxy molding compounds for encap | China 192 1997 30,000 mf Environmental ISO 14001 Occupational Health and Safety OHSAS 18001 Quality ISO 9001 ISO/TS 16949 Epoxy molding compounds for encapsulation of |

We consume a large amount of energy in order to maintain low temperatures, and so we are pursuing energy conservation activities on an ongoing basis. Thus, we are implementing measures to achieve greater energy saving by expanding the introduction of high efficiency cooling systems with freezers and shifting to more energy efficient compressors. Striving to be a company trusted by the local community, we engage in exchanges with local people and eagerly participate in local civic activities.

President Norihisa Fujimura



Sumitomo Bakelite (Shanghai) Co., Ltd.



| 3 | | | |
|----------------------------|--|--------------|------------|
| Address | No. 88, Aidu Road, China (Shanghai) Pilot Free Trade Zone, Shanghai 200131 P.R. China | | |
| Number of employees | 130 | | |
| Commencement of operations | 2000 | | |
| Total site area | 8,698 m [*] | | |
| Month/year of | Environmental | ISO 14001 | April 2007 |
| management system | Quality | ISO 9001 | 2002 |
| certification | Quality | ISO/TS 16949 | 2013 |
| Principal R&D themes | Molded products for automotive applications (plastic | | |

We produce molded mechanical and structural parts made of phenolic resins for use in automobiles. We are working actively to reduce waste by improving yields and cutting CO2 emissions through energy saving. While ensuring compliance with laws and ordinances, all our employees will make a sincere and wholehearted effort to make sure the company earns the trust of customers and the local community.

President Yasuhiro Takemura



Sumitomo Bakelite (Nantong) Co., Ltd.



| Address | No. 81, Tongda Road, Port Industrial Park 3, Economic Technological Development Area, Nantong, Jiangsu, 226017 P.R. China | | |
|---|--|--------------|---|
| Number of employees | 245 | | |
| Commencement of operations | 2009 | | |
| Total site area | 100,000 m ² | | |
| | Environmental | ISO 14001 | May 2010 |
| Month/year of management system certification | Quality | ISO 9001 | 2010 (PM, PR) 2014 (film sheets) 2016 (ECR) |
| | | ISO/TS 16949 | 2014 (PM, PR) |
| Principal R&D themes | Phenolic resins, phenolic molding compounds, liquid epoxy resins, coextruded multilayered films and sheets for food packaging, tapes for electronic components | | |

We are working to quickly identify and respond to changes in legislation and details of government instructions in China because rigorous management is required to lower emissions of environmental load substances and to improve safety, while there has been an increase in instances where controls that exceed international standards are now required. In 2015, we set up our own website where we release information about CSR activities and focus on public relations actions externally.

> President Takashi Kobayashi



Sumitomo Bakelite (Dongguan) Co., Ltd.



| Address | No. 2 Qiao Lin Road, Ling Tou Industrial District, Qiao Tou Town, Dongguan, Guangdong, P.R. China | | |
|----------------------------|--|--------------|------------------------|
| Number of employees | 666 | | |
| Commencement of operations | 1994 | | |
| Total site area | 32,930 m ² | | |
| | Environmental | ISO 14001 | September 2004 |
| Month/year of | Occupational Health and Safety | OHSAS 18001 | September 2003 |
| management system | | ISO 9001 | 2003 (molded products) |
| certification | Quality | ISO/TS 16949 | 2015 (molded products) |
| | | ISO 13485 | 2005 (medical) |
| Principal R&D themes | Precision molded products, molded products for automobiles, medical products | | |

We manufacture medical products, precision molded products and molded products for automobiles. We obtained OHSAS certification in 2013 and recorded 2 million hours and one full year without an occupational injury in August 2015. This year we are focusing on safety training for all employees. Our goal is to achieve workplace safety and environmental conservation while also reducing energy consumption through efforts to conserve energy.





Sumitomo Bakelite Macau Co., Ltd.



| Address | Zona Ind. do Aterro Sanitario de Seac Pai Van Lote A, junto a Estrada de Seac, Pai Van, Coloane, Macau | | |
|------------------------------------|---|-----------|------------|
| Number of employees | 156 | | |
| Commencement of operations | 2003 | | |
| Total site area | 27,513 m ² | | |
| Month/year of | Environmental | ISO 14001 | April 2005 |
| management system certification | Quality | ISO 9001 | 2003 |
| Principal R&D themes | Epoxy resin copper-clad laminates | | |

We are the principal plant in Macau manufacturing epoxy resin copper-clad laminates, which are marketed in China, Southeast Asia, and Japan. Our recent focus has been on automotive applications, where there is greater use of electric equipment. Our products are also being widely used in LED lighting, highly functional home appliances, and energy efficient air conditioners, contributing to energy savings. Ensuring compliance with the laws

of Macau, we are making a concerted effort to reduce energy consumption and material flow cost across the organization.

Managing Director Kenichi Hasegawa



Sumitomo Bakelite (Taiwan) Co., Ltd.



| Address | No. 1, Hwa Syi Road, Ta Fa Industries District, Ta Liao 831, Kaohsiung, Taiwan, R.O.C | | |
|------------------------------------|--|--------------|---------------|
| Number of employees | 110 | | |
| Commencement of operations | 1998 | | |
| Total site area | 24,271 m ² | | |
| | Environmental | ISO 14001 | May 2003 |
| Month/year of | Occupational Health and Safety | OHSAS 18001 | February 2012 |
| management system certification | Our life. | ISO 9001 | 2003 |
| Quality | | ISO/TS 16949 | 2006 |
| Principal R&D themes | Epoxy molding compounds for encapsulation of semiconductor devices | | |

Our company researches, manufactures and sells epoxy molding compounds for encapsulation of semiconductor devices. In fiscal 2015, we reduced energy usage by 10% compared with the previous year. Although we plan to increase production volume in fiscal 2016, our aim remains to achieve a reduction of 3% or more this year. We will also focus more than ever on reducing waste (halving material flow cost).

President



Vaupell China Molding and Tooling Co., Ltd. (VCH)



| Address | Building B32, Tantou Xibu Industrial Park Songgang Town, Shenzhen, Guangdong, 518105 P.R. China | | |
|------------------------------------|---|----------|------|
| Number of employees | 165 | | |
| Commencement of operations | 2007 | | |
| Total site area | 8,637 m ² | | |
| Month/year of | 0 15 | ISO 9001 | 2011 |
| management system certification | Quality | AS 9100 | 2011 |
| Principal R&D themes | Plastic products | | |

In 2015, we achieved a robust sales growth rate of 28% compared to 2014. The ratio of product qualification exceeded 99.5%. Also, a survey of customer satisfaction revealed that more than 80% of customers are satisfied with our products and services. There were no occupational accidents or injuries in 2015.

> General Manager NANDEDKAR SUMIT ARVIND



Overseas: Southeast Asia

SNC Industrial Laminates Sdn. Bhd.



| Address | PLO 38, Jalan Keluli Satu, Pasir Gudang, Industrial Estate, 81700 Pasir Gundang, Johor, Malaysia | | |
|----------------------------|---|-------------|-------------|
| Number of employees | 136 | | |
| Commencement of operations | 1992 | | |
| Total site area | 60,000 m ² | | |
| Month/year of | Environmental | ISO 14001 | April 2001 |
| management system | Occupational Health and Safety | OHSAS 18001 | August 2012 |
| certification | Quality | ISO 9001 | 2002 |
| Principal R&D themes | Phenolic resin copper-clad laminates, phenolic resin laminates, aluminum-based copper-clad laminates | | |

We mainly manufacture and sell phenolic resin copperclad laminates. Our manufacturing processes tend to be energy intensive. In fiscal 2016, following a review of our operations by a team from Japan in fiscal 2015, we will implement the reduction plan of the project to reduce energy consumption to achieve even greater results than before.

Managing Director Tomoyoshi Honjoya



Sumitomo Bakelite Singapore Pte. Ltd.



| Address | 1 Senoko South Road, Singapore 758069, Singapore | | |
|------------------------------------|---|--------------|--------------|
| Number of employees | 182 | | |
| Commencement of operations | 1989 | | |
| Total site area | 22,276 m ² | | |
| | Environmental | ISO 14001 | July 1997 |
| Month/year of management system | Occupational Health and Safety | OHSAS 18001 | October 2009 |
| certification | Quality | ISO 9001 | 1993 |
| Quality | | ISO/TS 16949 | 2005 |
| Principal R&D themes | Epoxy molding compounds for encapsulation of semiconductors, paste for die bonding, liquid resins for encapsulation of semiconductors | | |

Our company develops, manufactures, and sells epoxy molding compounds, used for encapsulation of semiconductor devices, and semiconductor die attach paste. We continue with efforts to reduce energy usage by not only developing products that are environmentally conscious, but also shifting to more energy efficient equipment that is also more eco-friendly. We are also reducing waste through various measures, including improving yield.

Managing Director Yukihiro Okabe



SumiDurez Singapore Pte. Ltd.



| | 0.T. i D. i O O | | |
|------------------------------------|--|--------------|----------------|
| Address | 9 Tanjong Penjuru Crescent Singapore 608972, Singapore | | |
| Number of employees | 52 | | |
| Commencement of operations | 1989 | | |
| Total site area | 30,000 m ² | | |
| | Environmental | ISO 14001 | September 1998 |
| Month/year of management system | Occupational Health and Safety | OHSAS 18001 | March 2015 |
| certification | Overlite | ISO 9001 | 2003 |
| | Quality | ISO/TS 16949 | 2012 |
| Principal R&D themes | Phenolic resin molding compounds | | |

We manufacture and sell phenolic molding compounds. As most of the products we handle are powder, we pay close attention to preventing the release of dust into the air and release of effluent into the water. We are also focusing on material flow cost reduction activities through energy conservation activities and waste reduction. By continuing with these activities, we are carrying out production activities that are mindful of the environment and society.

Senior Plant Manager Motoharu Amma



P.T. Indopherin Jaya



| Address | JL. Brantas No.1, Probolinggo, East Java, Indonesia | | |
|----------------------------|---|-------------|---------------|
| Number of employees | 114 | | |
| Commencement of operations | 1996 | | |
| Total site area | 18,000 m ² | | |
| Month/year of | Environmental | ISO 14001 | January 2001 |
| management system | Occupational Health and Safety | OHSAS 18001 | December 2012 |
| certification | Quality | ISO 9001 | 2001 |
| Principal R&D themes | Phenolic resins | | |

There is rising interest in Indonesia about the environment and as part of this movement we are working to mitigate our impacts on the environment. We have introduced high efficiency waste incinerators for both legal compliance and energy savings. We are also raising employee awareness about safety and the environment through training. At the same time, as a member of the community we are actively taking part in efforts to protect mangrove trees and other unique activities locally.

Factory Director



P.T. SBP Indonesia



| Kawasan Industri MM2100, JL. Irian Blok NN-1-1, Kec,Cikarang Barat, Bekasi, 17520, Indonesia | | |
|--|---|--|
| 148 | | |
| 1996 | | |
| 30,000 m | | |
| Environmental | ISO 14001 | December 2010 |
| Quality | ISO 9001 | 2003 |
| Polycarbonate extruded resin sheets (for signage and construction applications) | | |
| | 17520, Indonesia 148 1996 30,000 m² Environmental Quality Polycarbonate extruded re | 17520, Indonesia 148 1996 30,000 m² Environmental ISO 14001 Quality ISO 9001 Polycarbonate extruded resin sheets (for signage and or |

We manufacture and sell polycarbonate sheets, which are used as skylights on factory roofs and walls, contributing to energy savings. In fiscal 2016, will plan on further reducing energy usage and CO2 emissions by introducing energy efficient compressors and reusing wooden pallets. Our goal is to be a safe, trusted and environmentally friendly company.

President Director Hiromi Imaishi



Overseas: North America

Sumitomo Bakelite North America, Inc. (Manchester Plant)



| Address | 24 Mill Street, Manchester, Connecticut 06042, USA | | |
|------------------------------------|--|-----------|---------------|
| Number of employees | 58 | | |
| Commencement of operations | 1920 | | |
| Total site area | 14,000 m ² | | |
| Month/year of | Environmental | ISO 14001 | November 2014 |
| management system certification | Quality | ISO 9001 | 2003 |
| Principal R&D themes | Thermoset composites | | |

The plant is examining new ways to reduce waste, energy consumption and emissions, given people's rising awareness and concern about the environment. While emphasizing that these reduction efforts receive top priority, everyone at the plant is also working to make sure we fulfill the demands of our business operations.

Plant Manager Robert Hunt



Durez Corporation (Kenton Plant)



| Address | 13717 U.S. Route 68 South Kenton, Ohio 43326, USA | | |
|------------------------------------|---|-------------|-----------|
| Number of employees | 60 | | |
| Commencement of operations | 1955 | | |
| Total site area | 263,100 m ² | | |
| Month/year of | Occupational Health and Safety | OHSAS 18001 | July 2011 |
| management system certification | Quality | ISO 9001 | 2003 |
| Principal R&D themes | Phenolic resins | | |

As a member of the local community, and as a member of a global organization, we are striving to be a manufacturing facility that fulfills its responsibilities in terms of safety and the environment. The plant has not had an environmental accident since 2015 and our ultimate goal is to eliminate all occupational accidents and injuries. We have introduced a new phenol recovery system that has reduced the impacts we have on the environment.

Operations Manager Scott Franks



Durez Corporation (Niagara Falls Plant)



| Address | 5000 Packard Road, Niagara Falls, NY 14304, USA | | |
|------------------------------------|---|-------------|---------------|
| Number of employees | 60 | | |
| Commencement of operations | 1930 | | |
| Total site area | 18,960 m ² | | |
| Month/year of | Occupational Health and Safety | OHSAS 18001 | December 2011 |
| management system certification | Quality | ISO 9001 | 2003 |
| Principal R&D themes | Phenolic resins | | |
| | | | |

In 2016, we will aim to continue with the positive trend of reducing hazardous waste emissions. The plant has adopted a systematic approach to analyzing the flow of waste, and by utilizing new technologies, we are working to lower hazardous waste emissions to less than 12 tons per year.

Operations Manager Michael Wienckowski



Durez Canada Co., Ltd.



| Address | 100 Dunlop Street, Fort Erie, Ontario L2A 4H9, Canada | | |
|---|---|----------|------|
| Number of employees | 70 | | |
| Commencement of operations | 1970 | | |
| Total site area | 93,000 m ² | | |
| Month/year of management system certification | Quality | ISO 9001 | 2003 |
| Principal R&D themes | Phenolic resin molding compounds | | |

In 2015, the plant implemented several projects with the goal of reducing the amount of waste we produce. The plant also continues to emphasize energy savings, and we have achieved solid results in cutting back energy usage compared to 2012. One future challenge the plant will face is satisfying air emissions standards that are expected to be levied by the government.

Plant Manager Robert Hunt



Promerus LLC



| Address | 9921 Brecksville Road, Brecksville, Ohio 44141-3247, USA | | |
|---|--|----------|------|
| Number of employees | 28 | | |
| Commencement of operations | 2001 | | |
| Total site area | 1,020 m ² | | |
| Month/year of management system certification | Quality | ISO 9001 | 2006 |
| Principal R&D themes | Functional polynorbornenes | | |

We are working to prevent occupational injuries and illnesses by increasing the number of reports of close calls. In addition to incorporating non-routine work to reduce injury risk, we share information on accident reviews within the company and updated SDS and labels. We have increased the use of recycled flow during monomer production in order to reduce energy usage and hazardous substances in the pilot plant area.

Senior Manager Larry Rhodes



Vaupell Northwest (VNW)



| Address | 1144 N.W. 53rd Seattle, Washington, 98107, USA | | |
|------------------------------------|--|----------|------|
| Number of employees | 352 | | |
| Commencement of operations | 1947 | | |
| Total site area | 10,219 m [*] | | |
| Month/year of | 0 10 | ISO 9001 | 2004 |
| management system certification | Quality | AS 9100 | 2004 |
| Principal R&D themes | Airplanes | | |

We provide contract manufacturing solutions for aerospace applications ordered by the SBNA HPP Group. Based in Seattle, we provide complex injection molding, assembly, painting and coating technologies for interior and exterior components to customers in the aerospace industry. Our Seattle Plant employes a workforce of 350 direct and indirect employees, including sales reps, general workers and managers.

Director of Aerospace Operations Matthew Barnett



Vaupell Northeast (VNE)



| Address | 101 HP Almgren Dr. Agawam, Massachusetts 01001, USA | | |
|---|--|-----------|------|
| Number of employees | 95 | | |
| Commencement of operations | 2005 | | |
| Total site area | 9,290 m ² | | |
| Month/woor of | | ISO 9001 | 2012 |
| Month/year of management system certification | Quality | ISO 13485 | 2007 |
| ceruncation | | AS 9100 | 2012 |
| Principal R&D themes | Injection molding for certain markets including medical product components, etc. | | |

The plant focuses on manufacturing and assembling medical device components using injection molding. The plant operates a wide variety of injection mold machines, from 30 tons up to 787 tons. As part of our efforts to win more defense contracts, we launched a new program to produce parts for rockets and rocket carriers. Through continual improvements, we strive to improve safety, quality, delivery times, and profitability.

General Manager David Pellegrino



Vaupell Midwest (VMW)



| Address | 485 Florence Road Constantine, Michigan 49042, USA | | |
|------------------------------------|--|-----------|---------------|
| Number of employees | 200 | | |
| Commencement of operations | 1969 | | |
| Total site area | 7,525 m ² | | |
| | Environmental | ISO 14001 | December 2009 |
| Month/year of management system | Quality | ISO 9001 | 2009 |
| certification | | ISO 13485 | 2012 |
| | | | |
| | | AS 9100 | 2009 |

We offer simple assembly and contract manufacturing of medical instruments. We offer onsite engineering, casting design, and fabrication, and operate 39 injection mold machines, ranging in size from 17 tons to 600 tons. Currently, we employ a workforce of 200, which makes us the largest company in Constantine, Michigan. With pride in our history and track record, we are now turning our attention to the future of the company.

Plant Manager Jeremy Howard



Vaupell Rapid Solutions (VRS)



| Address | 20 Executive Drive Hudson, New Hampshire 03051-4917, USA | | |
|---|--|----------|------|
| Number of employees | 44 | | |
| Commencement of operations | 1995 | | |
| Total site area | 3,500 m ² | | |
| Month/year of management system certification | Quality | ISO 9001 | 2011 |
| Principal R&D themes | SLA/SLS, resin cast molding, CNC work, DMLS, molds for injection molding, molding, painting, CAD services, assembly, and inspection services | | |

We focus on providing solutions throughout the product life cycle. We offer holistically connected solutions, from sales, program management, global supply chain, and logistics, through our ability to support the needs of product sales in various ways. Customers have been highly impressed with the direct dialogue they have with staff and customer representatives.

General Manager Stratton Smith



Russell Plastics Technology Co., Inc. (Vcomp)



| Address | 521 W. Hoffman Ave Linder | 21 W. Hoffman Ave Lindenhurst, New York 11757, USA | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|
| Number of employees | 88 | 8 | | | | | | | |
| Commencement of operations | 1941 | 941 | | | | | | | |
| Total site area | 5,575 m ² | 5,575 m ² | | | | | | | |
| Month/year of management system certification | Quality AS 9100 2005 | | | | | | | | |
| Principal R&D themes | Components for rotary wing aircraft, and OEM interior products | | | | | | | | |

We highly value the concept of good neighbor to the community and good corporate citizen. This concept validates our proactive involvement in environmental impact management. As a single organization, we are fully aware of our obligation to manage processes in a way to avoid damages or negative consequences for surrounding communities. We highly value the concept of good neighbor to the community and good corporate citizen. This concept validates our proactive involvement in environmental impact

management. As a single organization, we are fully aware of our obligation to manage processes in a way to avoid damages or negative consequences for surrounding communities.

General Manager Joseph Kamin



Overseas: Europe

Sumitomo Bakelite Europe N.V.



| Address | Henry Fordlaan 80, B-3600 Genk, Bel | gium | | | | | | | |
|---|-------------------------------------|-------------|--------------|--|--|--|--|--|--|
| Number of employees | 140 | 40 | | | | | | | |
| Commencement of operations | 1967 | 167 | | | | | | | |
| Total site area | 10,000 m ² | | | | | | | | |
| | Environmental | ISO 14001 | January 2001 | | | | | | |
| Month/year of management system certification | Occupational Health and Safety | OHSAS 18001 | July 2012 | | | | | | |
| | Quality | ISO 9001 | 2003 | | | | | | |
| Principal R&D themes | Phenolic resins, polyester resins | | | | | | | | |

Both management and employees recognize there is no shortcut to safety. We have made changes to our failure calendar, daily safety patrols, and four basic safety procedures ("lock-tag-try procedures," "heat work," "line breaks" and "closed space entry"). In addition, we will achieve the new standards for obtaining ISO 50001 certification by December 2016.





Sumitomo Bakelite Europe (Barcelona), S.L.U.



| Address | Gran Vial, 4 Montornes del Valles (Ba | arcelona) 08170, Spain | | | | | | |
|---|--|------------------------|---------------|--|--|--|--|--|
| Number of employees | 87 | | | | | | | |
| Commencement of operations | 1949 | | | | | | | |
| Total site area | 19,856 m ² | | | | | | | |
| | Environmental | ISO 14001 | March 2005 | | | | | |
| Month/year of management system certification | Occupational Health and Safety | OHSAS 18001 | February 2013 | | | | | |
| | Quality | ISO 9001 | 2002 | | | | | |
| Principal R&D themes | Phenolic resins, friction particles, adhesives | | | | | | | |

In 2015, we conducted a large part of Sumitomo Bakelite Europe's production activities in this plant. In particular, we are responding precisely to growing customer needs using new pulverization equipment for the production of powder resins. To improve efficiency, we conducted testing of a wastewater treatment system using solvent-based phenol extraction. This system will help us to reduce wastewater and energy consumption.

Site Manager José Miralles



Vyncolit N.V.



| Address | Wiedauwkaai 6, B-9000 Gent, Belgiu | Niedauwkaai 6, B-9000 Gent, Belgium | | | | | | |
|---|------------------------------------|-------------------------------------|--------------|--|--|--|--|--|
| Number of employees | 123 | 23 | | | | | | |
| Commencement of operations | 1992 | | | | | | | |
| Total site area | 20,506 m ² | | | | | | | |
| | Environmental | ISO 14001 | 1999 | | | | | |
| Month/year of management system certification | Occupational Health and Safety | OHSAS 18001 | January 2013 | | | | | |
| | Quality | ISO 9001 | 1992 | | | | | |
| Principal R&D themes | Thermoset molding compounds | | | | | | | |

Our company manufactures molding compounds used in the automotive industry. Major challenges facing us in fiscal 2016 include the opening of a demonstration center for molding large components made from thermosetting resins, and relocating the LF line from Switzerland to Belgium. Currently, we are increasing our workforce in response. Also, we plan on further reducing the level of CO2 emissions by installing a new warming unit.

Plant Manager Gerard Wildeman



Trends in Environmental Performance

■ Business Sites in Japan

| | | ltem | Unit | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 (Plan) | 2020 (Target) |
|---------------|-----------------|--|---------------------------------|---------|---------|---------|---------|---------|---------|------------------|---------|---------|------------------|--------|----------------|------------------|
| СО | ₂ em | nissions | t-CO ₂ | 137,961 | 135,326 | 123,382 | 109,402 | 107,233 | 101,181 | 93,300 | 103,165 | 104,556 | 101,790 | 97,238 | 84,717 | 103,471 |
| En | ergy | usage | Crude oil equivalent (kL) | 74,370 | 72,045 | 68,151 | 58,544 | 58,021 | 58,156 | 53,307 | 52,320 | 50,276 | 48,845 | 47,199 | 45,895 | - |
| | | Landfill | ton | 605 | 232 | 143 | 148 | 82 | 33 | 29 | 18 | 13 | 16 | 53 | 44 | 13 |
| | Waste | External intermediate processing | ton | 342 | 53 | 83 | 52 | 11 | 6 | 6 | 5 | 5 | 7 | 45 | 7 | 4 |
| Material loss | generate | Internal intermediate processing | ton | 0.5 | 2.2 | 1.2 | 0.9 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| loss | ā | External recycling | ton | 10,495 | 11,030 | 9,790 | 7,617 | 7,368 | 7,511 | 7,338 | 7,794 | 7,477 | 7,987 | 7,665 | 6,856 | 5,708 |
| | | al waste nerated | ton | 11,444 | 11,317 | 10,017 | 7,818 | 7,462 | 7,550 | 7,373 | 7,817 | 7,494 | 8,010 | 7,762 | 6,906 | 5,725 |
| | Val | uable materials | ton | 9,501 | 9,190 | 9,752 | 8,705 | 8,675 | 9,174 | 7,970 | 7,930 | 8,633 | 8,326 | 8,008 | 7,495 | 7,605 |
| Tot | tal n | naterial loss | ton | 20,945 | 20,507 | 19,769 | 16,523 | 16,137 | 16,724 | 15,343 | 15,748 | 16,127 | 16,337 | 15,770 | 14,351 | 13,330 |
| | emi nissi | cal substance ons | ton | 512 | 423 | 340 | 210 | 222 | 273 | 249 [*] | 230** | 268* | 202 [*] | 171 | 146 | 102 |
| | | ons of substances t to the PRTR Law | ton | 81 | 39 | 16 | 15 | 19 | 17 | 16 | 12 | 15 | 15 | 13 | 12 | _ |

■ Overseas Business Sites

| | | Item | Unit | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 (Plan) | 2020 (Target) |
|---------------|-------------------|--|---------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------------|------------------|
| CC |) ₂ en | nissions | t-CO ₂ | 163,259 | 170,554 | 170,109 | 143,314 | 151,074 | 160,989 | 152,735 | 141,491 | 144,508 | 142,830 | 151,698 | 154,123 | 14,419 |
| En | ergy | y usage | Crude oil equivalent (kL) | 82,906 | 84,696 | 84,966 | 72,576 | 72,557 | 78,702 | 76,533 | 71,013 | 68,231 | 66,466 | 70,874 | 72,982 | - |
| | | Landfill | ton | 6,586 | 5,608 | 3,864 | 4,132 | 3,189 | 4,050 | 4,093 | 3,138 | 3,027 | 2,873 | 3,066 | 2,577 | _ |
| | Waste (| External intermediate processing | ton | 3,547 | 3,810 | 3,413 | 2,802 | 3,858 | 3,462 | 4,951 | 3,885 | 4,122 | 3,580 | 3,637 | 2,501 | _ |
| Material loss | generate | Internal intermediate processing | ton | 8,196 | 7,877 | 6,792 | 5,549 | 4,794 | 6,003 | 5,620 | 3,217 | 2,869 | 3,105 | 2,833 | 3,248 | - |
| loss | ۵ | External recycling | ton | 1,564 | 1,598 | 1,583 | 2,095 | 2,451 | 4,332 | 1,874 | 2,540 | 3,034 | 4,387 | 3,712 | 2,030 | - |
| | | tal waste nerated | ton | 20,163 | 18,893 | 15,652 | 14,577 | 14,291 | 17,847 | 16,537 | 12,780 | 13,053 | 13,945 | 13,247 | 154 | 10,410 |
| | Va | luable materials | ton | 8,695 | 10,914 | 11,138 | 8,036 | 3,658 | 4,010 | 4,079 | 3,609 | 2,956 | 2,800 | 4,522 | 4,217 | 7,062 |
| То | tal n | naterial loss | ton | 28,858 | 29,807 | 26,790 | 22,613 | 17,949 | 21,857 | 20,617 | 16,389 | 16,009 | 16,746 | 17,770 | 14,572 | 17,473 |
| | emi nissi | cal substance ons | ton | - | _ | _ | _ | _ | 278 | 191 | 245 | 204 | 164 | 147 | 147 | 144 |

Notes: Data covering all the business sites listed on page 3.

Following a re-examination of the calculations, the data back to FY 2011 has been revised (2014: 237t → 202t).

Definitions/Calculation Method

CO₂ emissions

CO2 emissions are calculated based on the energy used in all business activities (fuels, heat, electric power, etc.). The emissions calculation method used is based on the Manual for Calculating/Reporting Greenhouse Gas Emissions (March 2009, Ministry of the Environment and Ministry of Economy, Trade and Industry), and figures shown represent the sum of emissions calculated for each energy type (tons-CO2). For calorific values of city gas, figures published by the respective supplier companies are used. For CO₂ emission coefficients of electricity, CO₂ emissions from business sites in Japan are calculated using CO2 emission coefficients (actual emission coefficients) of electricity for individual power companies published under the Act on Promotion of Global Warming Countermeasures. CO2 emissions from business sites overseas are calculated using the latest available CO2 emission coefficients of electricity for individual power companies at the start of each fiscal year. If an electric power company's emission coefficient is unknown, the latest coefficient at the start of each fiscal year released by the International Energy Agency (IEA) is used.

Waste generated

Total of aggregate volume of industrial and general waste from business sites. Definitions of each type of waste are as follows.

- (1) Landfill: waste disposed of in landfills by the Company or outsourced contractors
- (2) External intermediate processing: waste incinerated or treated by other means by outsourced contractors (without energy recovery)
- (3) Internal intermediate processing: waste incinerated or treated by other means in-house (without energy recovery)

(4) External recycling (expenses paid): waste recycled with payment made to cover processing costs (including energy recovery)

Valuable materials

The volume of valuable materials that are generated at business sites and sold and that are neither products nor raw materials.

Material loss

Total of the volume of waste generated and the volume of valuable materials. Waste generated owing to the retirement of facilities, repairs, building demolition (in-house demolition work),etc., is not included in the scope of waste, nor is dismantling scrap material of value sold, facilities resold, or construction material waste (for which a manifest is issued by the Company).

Chemical substance emissions

Total emissions into the air, bodies of water, and the ground (aggregate volume) of chemical substances targeted by the Japan Chemical Industry Association (JCIA)'s Pollutant Release and Transfer Register (PRTR) assessments (including substances subject to the reporting requirements of "The Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof" of Japan [PRTR system]). The emissions calculation method used is based on the latest Manual for Calculating PRTR Emissions (Ministry of the Environment and Ministry of Economy, Trade and Industry). JCIA changed the chemical substances subject to survey in fiscal 2013 and the Group reflected the change in the overall results from fiscal 2014 onward. Major substances that were excluded from the scope of calculation include ammonia and sulfuric acid.

Response to Energy Saving/Global Warming Prevention Acts ☑

| | | Unit | FY2010 | FY2011 | FY2012 | FY2013 | FY2014 | FY2015 |
|----------------------------|--|---------------------------|--------|--------|--------|--------|--------|--------|
| | CO ₂ emissions | t-CO ₂ | 84,035 | 75,883 | 81,541 | 81,471 | 79,822 | 76,989 |
| Sumitomo Bakelite | Energy usage | Crude oil equivalent (kL) | 48,903 | 43,464 | 42,314 | 40,661 | 39,747 | 38,600 |
| | Year-on-year intensity of energy usage | % | 96.8 | 101.3 | 92.1 | 96.5 | 96.4 | 100.5 |
| | CO ₂ emissions | t-CO ₂ | 6,050 | 6,325 | 7,470 | 8,038 | 7,835 | 7,037 |
| Kyushu Sumitomo Bakelite | Energy usage | Crude oil equivalent (kL) | 3,740 | 3,715 | 3,437 | 3,247 | 3,159 | 2,957 |
| | Year-on-year intensity of energy usage | % | 96.1 | 101.1 | 97.9 | 94.3 | 93.3 | 98.1 |
| | CO ₂ emissions | t-CO ₂ | 8,583 | 6,183 | 6,776 | 6,429 | 6,016 | 5,176 |
| Akita Sumitomo Bakelite | Energy usage | Crude oil equivalent (kL) | 3,751 | 2,728 | 2,806 | 2,547 | 2,393 | 2,070 |
| | Year-on-year intensity of energy usage | % | 123.2 | 90.4 | 121.8 | 86.1 | 88.0 | 98.0 |
| S.B. Sheet Waterproof | CO ₂ emissions | t-CO ₂ | | | 3,645 | 4,282 | 4,098 | 3,865 |
| Systems (started reporting | Energy usage | Crude oil equivalent (kL) | | | 1,941 | 2,017 | 1,913 | 1,807 |
| from FY2012) | Year-on-year intensity of energy usage | % | | | _ | 96.4 | 97.8 | 94.8 |

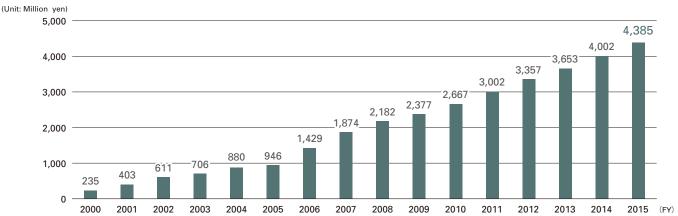
Distribution-Related Energy Conservation Measures ✓

| | | Unit | FY2006 | FY2007 | FY2008 | FY2009 | FY2010 | FY2011 | FY2012 | FY2013 | FY2014 | FY2015 |
|---------------------------------|--|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Transportation ton-kilometer | | Thousand t-km | 30,297 | 41,265 | 33,647 | 32,573 | 37,271 | 33,663 | 29,267 | 29,117 | 29,626 | 30,413 |
| CO ₂ emissions assoc | iated with energy usage | t-CO ₂ | 5,090 | 6,730 | 5,580 | 5,270 | 5,780 | 5,208 | 4,592 | 4,610 | 4,499 | 4,476 |
| Intensity of energy | Energy usage (Crude oil equivalent [kL] / Transportation thousand ton-km | kL/ thousand ton-km | 0.0632 | 0.0613 | 0.0624 | 0.0609 | 0.0583 | 0.0582 | 0.0590 | 0.0596 | 0.0571 | 0.0555 |
| | Year-on-year reduction (FY2006=100%) | % | 100 | 97.0 | 98.7 | 96.4 | 92.2 | 92.1 | 93.4 | 94.3 | 90.3 | 87.8 |

Fiscal Year and Accumulated Investments for Environmental Protection ✓

| | Unit | FY2000 | FY2001 | FY2002 | FY2003 | FY2004 | FY2005 | FY2006 | FY2007 | FY2008 | FY2009 | FY2010 | FY2011 | FY2012 | FY2013 | FY2014 | FY2015 |
|------------------|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Fiscal year | Millions of yen | 235 | 168 | 208 | 95 | 174 | 66 | 483 | 445 | 308 | 195 | 290 | 335 | 355 | 296 | 350 | 383 |
| Cumulative total | Millions of yen | 235 | 403 | 611 | 706 | 880 | 946 | 1,429 | 1,874 | 2,182 | 2,377 | 2,667 | 3,002 | 3,357 | 3,653 | 4,002 | 4,385 |

■ Accumulated Investments for Environmental Protection



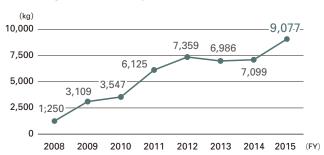
Usage of Paper Products that Contribute to Forest Thinning Efforts

Sumitomo Bakelite has supported forest thinning mainly in Iwate Prefecture since fiscal 2008 by expanding the use of Paper Products that Contribute to Forest Thinning Efforts promoted by the Morino Chonai-Kai (Forest Neighborhood Association). Since fiscal 2008 we have expanded the use of this paper to the Environmental & Social Report, Corporate Brochure, company newsletter, and other internal publications. The cumulative

amount of this paper used is approximately 45 tons, which corresponds to the thinning of 2.70 hectares.



■ Amount of Paper Products that Contribute to Wood Thinning Efforts Used by Sumitomo Bakelite



Data on Environmental Impacts by Site

- The regulatory limits shown for business sites in Japan are the figures quoted from the most stringent regulations of all those imposed by ordinances, regional agreements, administrative guidance, and other requirements issued by governmental authorities.
- 2. In the case of overseas business sites, the applicable standards are shown, but, because laws may differ from one country to another, these figures include national and regional regulatory limits, agreement standards, autonomous control standards, reference standards, and other types of standards. In addition, at some business sites, data have been compiled for the 2015

calender year.

- 3. The measured data are, in principle, the maximum level recorded in fiscal 2015, unless otherwise indicated in the notes. Please note that, in the case of pH figures, the minimum and maximum levels are shown. In addition, when actual measurements are below the quantifiable limits, the amounts are shown as "Less than (the quantifiable limit)." When the substance in question was less than the lower detection limit, the amount is shown as "not detected". Unmeasured values are shown with "-" (a dash).
- 4. Where "-" (a dash) is shown for the regulatory limit, the figures obtained by voluntary measurement are shown for reference.
- * Refer to the glossary on page 79 for more information about BOD, COD, NOx, and SOx

Japan

Kobe Facility Office **⊻**

■ Air No relevant facilities

■ Water

| ltem | Unit | Regulatory limit | Measured value |
|--------------------------------|------|------------------|----------------|
| pH | - | 5-9 | 6.9-7.8 |
| BOD | mg/L | 2,000 | 7 |
| n-hexane extract (mineral oil) | mg/L | 5 | Less than 1 |
| Suspended solids | mg/L | 2,000 | 3 |

Shizuoka Plant

■ Air

| Facility | Item | Unit | Regulatory limit | Measured value |
|--------------|---------------|-------|------------------|-----------------|
| Cogeneration | NOx | ppm | 100 | 81 |
| boiler | Soot and dust | g/m³N | 0.05 | Less than 0.013 |

■ Water

| ltem | Unit | Regulatory limit | Measured value |
|--------------------------------|------|------------------|----------------|
| рН | - | 5.8~8.6 | 7.2~7.9 |
| BOD | mg/L | 15 | 4.9 |
| COD | mg/L | 160 | 2.9 |
| n-hexane extract (mineral oil) | mg/L | 3 | Less than 0.5 |
| Suspended solids | mg/L | 30 | 6.6 |
| Phenols | mg/L | 1 | Less than 0.05 |
| Formaldehyde | mg/L | 5 | Less than 0.1 |

Kanuma Plant V

■ Air

| Facility | Item | Unit | Regulatory limit | Measured value |
|---------------------|---------------|---------|------------------|----------------|
| Diesel generator | SOx | K-value | 8 | 0.06 |
| | NOx | ppm | 950 | 860 |
| | Soot and dust | g/m³N | 0.1 | 0.018 |

■ Water

| · · · · · · · · · · · · · · · · · · · | | | | |
|---------------------------------------|------|------------------|----------------|--|
| ltem | Unit | Regulatory limit | Measured value | |
| рН | - | 5.8-8.6 | 6.5-7.5 | |
| BOD | mg/L | 20 | 8.6 | |
| COD | mg/L | 20 | 8.2 | |
| n-hexane extract (mineral oil) | mg/L | 5 | Less than 1 | |
| Suspended solids | mg/L | 40 | 5.2 | |
| Boron | mg/L | 10 | Less than 0.1 | |

^{*} To respond to the revision (2011) of the Water Pollution Control Act, items subject to measurement were added and checked with the government.

Utsunomiya Plant 🗹

■ Air

| Facility | ltem | Unit | Regulatory limit | Measured value | |
|----------------|---------------|---------|------------------|----------------|---|
| | SOx* | K-value | 6 | | |
| Drying furnace | NOx | ppm | _ | Not operated | * |
| | Soot and dust | g/m³N | 0.2 | | |

■ Water

| • water | | | | |
|--------------------------------|----------|------------------|----------------|--|
| ltem | Unit | Regulatory limit | Measured value | |
| pH | _ | 5.8-8.6 | 7.5-7.8 | |
| BOD | mg/L | 25 | 1.2 | |
| COD | mg/L | 25 | 4.2 | |
| n-hexane extract (mineral oil) | mg/L | 5 | Less than 1 | |
| Suspended solids | mg/L | 50 | Less than 1 | |
| Coliform bacteri | Count/mL | 3,000 | 0 | |
| Copper | mg/L | 3 | Less than 0.05 | |
| Soluble iron | mg/L | 3 | 0.09 | |
| Soluble manganese | mg/L | 3 | 0.18 | |

^{*} Facilities not in operation due to the end of production of adhesive tape for semiconductor assembly.

Amagasaki Plant 🗹

■ Air

| Facility | ltem | Unit | Regulatory limit | Measured value |
|----------|---------------|-------|------------------|-----------------|
| B :: | NOx | ppm | 150 | 52.1 |
| Boiler | Soot and dust | g/m³N | 0.05 | Less than 0.002 |

■ Water

| ltem | Unit | Regulatory limit | Measured value |
|--------------------------------|------|------------------|----------------|
| Н | _ | 5.8-8.6 | 7.1-8.3 |
| BOD | mg/L | 160 | 1.0 |
| COD | mg/L | 160 | 3.7 |
| n-hexane extract (mineral oil) | mg/L | 5 | 3.7 |
| SS | mg/L | 200 | 5.0 |

■ Water (released into sewers)

| ltem | Unit | Regulatory limit | Measured value |
|--------------------------------|------|------------------|----------------|
| рН | _ | 5.7-8.7 | 6.7-7.8 |
| BOD | mg/L | 300 | 140 |
| n-hexane extract (mineral oil) | mg/L | 30 | 4.8 |
| Suspended solids | mg/L | 300 | 160 |

S.B. Sheet Waterproof Systems Co., Ltd. ✓ (Nara Plant)

Business Activities in

■ Air

| Facility | Item | Unit | Regulatory limit | Measured value |
|----------|---------------|---------|------------------|----------------|
| | SOx | K-value | 17.5 | 0.49 |
| Boiler | NOx | ppm | 180 | 81 |
| | Soot and dust | g/m³N | 0.3 | 0.02 |

■ Water

| ltem | Unit | Regulatory limit | Measured value |
|--------------------------------|------|------------------|----------------|
| pH | - | 5.6~8.4 | 7.5~8.4 |
| BOD | mg/L | 50 | 3 |
| COD | mg/L | 50 | 5 |
| n-hexane extract (mineral oil) | mg/L | 2.5 | Less than 1 |
| Suspended solids | mg/L | 20 | 3 |

Kyushu Sumitomo Bakelite Co., Ltd. 🗹

■ Air

| Facility | Item | Unit | Regulatory limit | Measured value |
|----------|---------------|---------|------------------|----------------|
| Boiler | SOx | K-value | 17.5 | 6.7 |
| | NOx | ppm | 180 | 53 |
| | Soot and dust | g/m³N | 0.3 | 0.0069 |

■ Water

| ltem | Unit | Regulatory limit | Measured value |
|--------------------------------|------|------------------|----------------|
| рН | - | 5.6-8.6 | 7.2-7.6 |
| BOD | mg/L | 160 | 17 |
| COD | mg/L | 80 | 20 |
| n-hexane extract (mineral oil) | mg/L | 2.5 | Less than 1 |
| Suspended solids | mg/L | 100 | 6 |

Yamaroku Kasei Industry Co., Ltd. ✓

■ Air No relevant facilities

■ Water

| ltem | Unit | Regulatory limit | Measured value |
|--------------------------------|------|------------------|----------------|
| pH | - | 5.8~8.6 | 6.8~7.4 |
| BOD | mg/L | 25 | 3 |
| COD | mg/L | 25 | 4 |
| n-hexane extract (mineral oil) | mg/L | 4 | Less than 1 |
| Suspended solids | mg/L | 90 | 4 |
| PhenoIs | mg/L | 5 | Less than 0.01 |

^{*}In January 2016, the cooling water discharged by Yamaroku Kasei was found to contain levels of 1,4-Dioxane, which exceeded the regulatory limit, and the results of a water sample indicated that the groundwater source contained around the same concentration level of this pollutant. Yamaroku Kasei has never used 1,4-Dioxane before, but in order to avoid this pollutant from spreading to public waters, the company decided to stop the use and discharge of its well water and switch over to city water after consulting with government authorities.

S.B. Techno Plastics Co., Ltd. Head Office Plant

■ Air No relevant facilities

■ Water

| ltem | Unit | Regulatory limit | Measured value |
|--------------------------------|------|------------------|----------------|
| pH | - | 5-9 | 7.9 |
| BOD | mg/L | 600 | 2.4 |
| n-hexane extract (mineral oil) | mg/L | 5 | Less than 2.5 |
| Suspended solids | mg/L | 600 | Less than 5.0 |

^{*}Wastewater is released into sewers.

S.B. Techno Plastics Co., Ltd. Kitsuregawa Plant 🗹

No relevant facilities

■ Water

| ltem | Unit | Regulatory limit | Measured value |
|--------------------------------|------|------------------|----------------|
| рН | _ | 5.8~8.6 | 7.0 |
| BOD | mg/L | 25 | Less than 1 |
| n-hexane extract (mineral oil) | mg/L | 5 | Less than 0.5 |
| Suspended solids | mg/L | 50 | Less than 1 |

Akita Sumitomo Bakelite Co., Ltd. 🗹

■ Air

| _ / 111 | | | | |
|--|---------------|---------|------------------|-----------------|
| Facility | Item | Unit | Regulatory limit | Measured value |
| | SOx | K-value | 3 | 0.33 |
| Boiler | NOx | ppm | 110 | 52 |
| | Soot and dust | g/m³N | 0.09 | Less than 0.01 |
| Primary | SOx | K-value | 1 | 0.27 |
| calcination furnace for | NOx | ppm | 110 | Less than 29 |
| anode materials | Soot and dust | g/m³N | 0.04 | 0.008 |
| Secondary | SOx | K-value | 1 | Less than 0.07 |
| calcinations furnace for anode materials | NOx | ppm | 110 | 31 |
| | Soot and dust | g/m³N | 0.04 | Less than 0.005 |

■ Water

| = vvdtci | | | | | |
|------------------------|------|------------------|----------------|--|--|
| ltem | Unit | Regulatory limit | Measured value | | |
| pH | _ | 6.0-8.5 | 7.4-7.7 | | |
| BOD | mg/L | 30 | 2.2 | | |
| COD | mg/L | 30 | 9.2 | | |
| Suspended solids | mg/L | 40 | 5.0 | | |
| Phenols | mg/L | 0.5 | Less than 0.01 | | |
| Copper | mg/L | 1 | Less than 0.01 | | |
| Cyanide | mg/L | 0.1 | Less than 0.01 | | |
| Lead and its compounds | mg/L | 0.1 | Less than 0.01 | | |
| Soluble manganese | mg/L | 5 | Less than 0.03 | | |

^{*1} Calcination furnace for anode materials: Added to the agreement value with the government by reporting the specific facility for airborne soot and dust

Hokkai Taiyo Plastic Co., Ltd. ✓

■ Air No relevant facilities

■ Water

| ltem | Unit | Regulatory limit | Measured value |
|--------------------------------|------|--|----------------|
| рН | _ | 5.7-8.7 | 7.4 |
| BOD | mg/L | 300 | 2.2 |
| n-hexane extract (mineral oil) | mg/L | Mineral oil:5 Animal/vegetable oil: 30 | Lace than 1 l |
| Suspended solids | mg/L | 300 | 1 |

^{*2} Removed from the agreement value with the government by decommissioning the specific facility for water quality.

Overseas: China, Macau and Taiwan

Sumitomo Bakelite (Suzhou) Co., Ltd. ✓

■ Air No relevant facilities

■ Water

| ltem | | Unit | Regulatory limit | Measured value |
|---------------|----------------------|------|------------------|----------------|
| | pH | _ | 6.0-9.0 | 7.23 |
| | COD | mg/L | 500 | 310 |
| | BOD | mg/L | 300 | 114 |
| Outlet on the | Suspended solids | mg/L | 400 | 69 |
| | Animal/vegetable oil | mg/L | 100 | 3.84 |
| oodan oldo | Petroleum | mg/L | 20 | 0.06 |
| | Ammonium nitrogen | mg/L | 45 | 27.5 |
| Total phosph | Total phosphorus | mg/L | 8 | 2.4 |
| | Dissolved oxygen | mg/L | _ | 0.46 |

Note: There are no drainage-related regulatory limits for the industrial complex, but Sumitomo Bakelite (Suzhou) performs voluntary measurement for daily monitoring and management.

Sumitomo Bakelite (Shanghai) Co., Ltd. 🗹

■ Air No relevant facilities

■ Water

| ltem | Unit | Regulatory limit | Measured value |
|----------------------|------|------------------|----------------|
| pH | _ | 6-9 | 7.94-7.95 |
| COD | mg/L | 500 | 126 |
| BOD | mg/L | 300 | 36 |
| Suspended solids | mg/L | 400 | 22 |
| Animal/vegetable oil | mg/L | 100 | 1.09 |
| Ammonium nitrogen | mg/L | 40 | 1.74 |

Note: There are no regulations imposed on water quality by the national or local governments, nor agreements with the regions, nor other such circumstances. However, when Sumitomo Bakelite (Shanghai) obtained ISO certification, it received guidance that the level of water emissions would be considered appropriately managed if the levels of the six items measured were kept within the required standards. Therefore, Sumitomo Bakelite (Shanghai) measures levels of the six items.

Sumitomo Bakelite (Nantong) Co., Ltd. ✓

■ Air

| Facility | ltem | | Regulatory limit | Measured value |
|------------------|--|--------|---------------------|-------------------|
| PR | Phenols emission concentration | mg/m³N | 100 | 0.18 |
| deodorizer | Phenols emission speed | kg/h | 0.1 | 0.004 |
| PR deodorizer | Methanol emission concentration | mg/m³N | 190 | Less than 2 |
| deodorizer | Methanol emission speed | kg/h | 5.1 | 0.22 |
| PR | Formaldehyde emission concentration | mg/m³N | 25 | 0.16 |
| deodorizer | Formaldehyde emission speed | kg/h | 0.26 | 0.003 |
| PR deodorizer | Butanol emission speed | kg/h | 0.61 | 0.004 |
| PR deodorizer | MEK emission speed | kg/h | 2.43 | 0.043 |
| PR bug filter | Particulates emission concentration | mg/m³N | 120 | 0.549 |
| DC504 | Particulates emission speed | kg/h | 3.5 | 0.002 |
| PR bug filter | Particulates emission concentration | mg/m³N | 120 | 0.45 |
| DC503 | Particulates emission speed | kg/h | 3.5 | 0.002 |
| | Soot and dust emission concentration | mg/m³N | 60 | 12.1 |
| | SO ₂ emission concentration | mg/m³N | 300 | 15.9 |
| PR boiler | NOx emission concentration | mg/m³N | 400 | 89.5 |
| | Smoke blackness | - | 1 | Less than |
| D2 hua filtar | Particulates emission concentration | mg/m³N | 120 | 17.1 |
| P3 bug filter | Particulates emission speed | kg/h | 3.5 | 0.015 |
| PM | Phenols emission concentration | mg/m³N | 100 | 0.57 |
| deodorizer | Phenols emission speed | kg/h | 0.1 | 0.006 |

| Facility | Item | Unit | Regulatory limit | Measured value |
|--|--|--------|---------------------|-------------------|
| PM | Formaldehyde emission concentration | mg/m³N | 25 | 0.52 |
| deodorizer | Formaldehyde emission speed | kg/h | 0.26 | 0.005 |
| PM | IPA emission speed | kg/h | 10.32 | 0.001 |
| deodorizer | IPA emission concentration | mg/m³N | - | Less than 0.3 |
| PM | Ammonia emission speed | kg/h | 4.9 | 0.009 |
| deodorizer | Ammonia emission concentration | mg/m³N | - | 0.92 |
| PM1 bug | Particulates emission concentration | mg/m³N | 120 | 0.535 |
| filter | Particulates emission speed | kg/h | 19.58 | 0.005 |
| PM2 bug | Particulates emission concentration | mg/m³N | 120 | 0.92 |
| filter | Particulates emission speed | kg/h | 21.29 | 0.001 |
| PM3 bug | Particulates emission concentration | mg/m³N | 120 | 0.481 |
| filter | Particulates emission speed | kg/h | 19.58 | 0.002 |
| PM4 bug | Particulates emission concentration | mg/m³N | 120 | 0.731 |
| filter Particulates emission speed | | kg/h | 19.58 | 0.009 |
| PM5 bug | Particulates emission concentration | mg/m³N | 120 | 0.631 |
| filter Particulates emission speed | | kg/h | 21.29 | 0.005 |
| M6 bug Particulates emission concentration | | mg/m³N | 120 | 1.303 |
| filter | Particulates emission speed | kg/h | 19.58 | 0.006 |
| PM7 bug | Particulates emission concentration | mg/m³N | 120 | 3.176 |
| filter | Particulates emission speed | kg/h | 9.32 | 0.039 |
| PM8 bua | Particulates emission concentration | mg/m³N | 120 | 1.753 |
| filter | Particulates emission speed | kg/h | 9.32 | 0.019 |
| | Soot and dust emission concentration | mg/m³N | 200 | 9.5 |
| | SO ₂ emission concentration | mg/m³N | 550 | 19.4 |
| CEL purification | NOx emission concentration | mg/m³N | 240 | 38.9 |
| furnace | Non-methane hydrocarbon emission concentration | mg/m³N | 120 | 1.05 |
| | Styrene emission speed | kg/h | 6.5 | 4.2×10-7 |
| | Particulates emission concentration | mg/m³N | 120 | 2.98 |
| | Particulates emission speed | kg/h | 3.5 | 0.054 |
| CEL oil absorber and | Non-methane hydrocarbon emission concentration | mg/m³N | 120 | 1.61 |
| separator | Non-methane hydrocarbon emission speed | kg/h | 10 | 0.029 |
| | Styrene emission speed | kg/h | 6.5 | 1.4×10-5 |
| | Particulates emission concentration | mg/m³N | 120 | 1.001 |
| | Particulates emission speed | kg/h | 3.5 | 0.005 |
| ECR bug filter | Non-methane hydrocarbon emission concentration | mg/m³N | 120 | 1.23 |
| | Non-methane hydrocarbon emission speed | kg/h | 10 | 0.007 |
| EC water jet | CET emission concentration | mg/m³N | _ | 2.47 |
| tower | CET emission speed | kg/h | 4.08 | 0.021 |

Water

| ltem | Unit | Regulatory limit | Measured value |
|----------------------------------|------|------------------|----------------|
| pH | _ | 6-9 | 7.32-7.38 |
| COD | mg/L | 500 | 31 |
| BOD | mg/L | 300 | 2.42 |
| Ammonium nitrogen | mg/L | - | 7.934 |
| Phenols (volatization) | mg/L | 2 | 0.017 |
| Formaldehyde | mg/L | 5 | 0.5 |
| Phosphorus | mg/L | - | 3.53 |
| Methanol | mg/L | - | Less than 2 |
| Suspended solids | mg/L | 400 | 32 |
| Petroleum | mg/L | 20 | _ |
| LAS (anion surface active agent) | mg/L | 20 | _ |

- * There are no standards for IPA emission concentration or ammonia emission concentration and CET emission concentration in the air, but they are measured for reference. There are no standard values for ammonium nitrogen, phosphorus, or methanol, but they are measured for reference by the Nantong City Environmental Monitoring Center.
- *1 Deodorization/particulates of ECR, and CEL deodorization-related environmental values have been added starting from fiscal 2015.
- *2 Since there were no application proposals in fiscal 2015 for new equipment introduction for petroleum or LAS, the monitoring center decided to regard the year as a normal inspection year and therefore performed no measurements.

Business Activities in Harmony with the Environment

■ Air

| Facility | Item | | Regulatory limit | Measured value |
|---------------------------------------|--------------------|--------|------------------------|--------------------|
| | SO ₂ | mg/m³N | 550 | 31.3 |
| | SO ₂ | kg/h | 1.3 | 0.15 |
| Electric power | Soot and | mg/m³N | 120 | 27.6 |
| generator | dust | kg/h | 1.75 | 0.13 |
| | Smoke blackness | level | 1 | 0.5 |
| | SO ₂ | mg/m³N | 300 | 68 |
| Boiler (Light oil fired boiler) | NOx | mg/m³N | 300 | 229 |
| | Soot and dust | mg/m³N | 50 | 22.1 |
| | Smoke blackness | level | 1 | 0.5 |
| | SO ₂ | mg/m³N | 50 | 37 |
| Boiler (Natural gas fired boiler) | NOx | mg/m³N | 200 | 169 |
| | Soot and dust | mg/m³N | 30 | 9.3 |
| | Smoke blackness | level | 1 | Level 0.5 |
| Cafeteria | Oily smoke | mg/m³ | 2 | Less than 0.1 |
| Milling | NMHC | mg/m³N | 120 | 3.55 |
| wiiiing | INIVIAC | kg/h | 4.2 | 0.05 |
| | Benzene | mg/m³N | 1 | Less than 1.5×10-3 |
| | Delizerie | kg/h | 0.04 | _ |
| | Toluene | mg/m³N | Total concentration of | 0.221 |
| Molding site | Toluene | kg/h | toluene and xylene: | _ |
| iviolality site | Xylene | mg/m³N | Toluene and xylene | 6.89×10-2 |
| X | Aylette | kg/h | emission speed:0.11 | - |
| | Total VOC | mg/m³N | 30 | 0.965 |
| | Total VOC | kg/h | 0.32 | 1.27×10-3 |
| Sterilization plant | NMHC | mg/m³N | 4 | 0.58 |
| Factory exhaust | Soot and dust | mg/m³N | 1.0 | 3.1 |

■ Water

| ■ vvatci | | | | | |
|---------------------|----------------------|-------|------------------|----------------|----|
| | Item | | Regulatory limit | Measured value | |
| Rainwater reservoir | pН | _ | 6-9 | 6.93 | *6 |
| Rainwater reservoir | Fluoride | mg/L | 10 | 0.06 | *6 |
| | рH | - | 6~9 | 6.34 | *6 |
| | Chromaticity | Times | 40 | Less than 2 | *6 |
| Sewage treatment | Suspended solids | mg/L | 60 | Less than 4 | *6 |
| facility discharge | CODcr | mg/L | 90 | 10 | *6 |
| | BOD5 | mg/L | 20 | 4.9 | *6 |
| | Petroleum | mg/L | 5 | Less than 0.05 | *6 |
| | pН | - | 6-9 | 6.26 | |
| | Suspended solids | mg/L | 60 | Less than 4 | *1 |
| | COD | mg/L | 90 | 13 | *1 |
| Domestic | BOD | mg/L | 20 | 2.9 | *1 |
| wastewater | Ammonium nitrogen | mg/L | 10 | 0.09 | *3 |
| | Phosphate | mg/L | 0.5 | Less than 0.01 | *3 |
| | Animal/vegetable oil | mg/L | 10 | Less than 0.05 | *1 |

- *1 Regulatory limits have become more stringent.
- *2 As the regulatory limits for natural gas and light oil boilers are different, the figures are measured separately.
- *3 Restored item for measurement
- *4 As the concentration measurements are below the regulatory limit, rate measurement is not carried out
- *5 The concerned facility has been kept far away from the residential site as the measured value exceeded the regulatory limit.
- *6 Regulatory items to comply with have been added, on the occasion of the change of notification.

Sumitomo Bakelite Macau Co., Ltd. 🗹

■ Air

| Facility | Item | Unit | Regulatory limit | Measured value |
|--|---------------------|---------|------------------|-----------------|
| Boiler / RTO (Exhaust gas combustion unit) | со | mg/m³ | 1,000 | Less than 14/1 |
| | CO ₂ | % | - | 13/11 |
| | NOx | mg/m³ | 400/120 | 49/87 |
| | SOx | mg/m³ | 500 | Less than 590/5 |
| | Soot and dust | mg/m³ | 100/120 | 73/11.5 |
| RTO | Non-Methane TVOC | mgC/Nm³ | 50 | 16 |

■ Water regular wastewater (factory disposal)

| ltem | Unit | Regulatory | Measured |
|---------------------------------------|------|--------------------------------|-----------------|
| | _ | limit | value |
| pH | | 6~9 | 6.9~7.4 |
| Suspended solids | mg/L | 60 | 7.5 |
| COD | TCU | 150 | Less than 50 |
| BOD | mg/L | 40 | |
| | mg/L | 10 | 6.0 0.11 |
| Aluminum | mg/L | 0.2 | 0.012 |
| Lead | mg/L | 0.2 | Less than 0.008 |
| 2000 | mg/L | 1 | Less than 0.008 |
| Copper | mg/L | | |
| Chromium | mg/L | 2 | 0.0052 |
| Iron | mg/L | 2 | 0.73 |
| Manganese | mg/L | 2 | 0.093 |
| Nickel | mg/L | 2 | Less than 0.01 |
| Zinc | mg/L | 5 | 0.1 |
| Arsenic | mg/L | 1 | |
| Selenium | mg/L | 0.5 | Less than 0.05 |
| Mercury | mg/L | 0.05 | Less than 0.03 |
| Hexavalent chromium | mg/L | 0.1 | Less than 0.03 |
| Residual chlorine | mg/L | 0.5 | 0.12 |
| Total residual chlorine | mg/L | 1 | 0.34 |
| Phenols | mg/L | 0.5 | Less than 0.1 |
| Total cyanide | mg/L | 0.5 | Less than 0.05 |
| Sulfide | mg/L | 1 | Less than 0.1 |
| Sulfate | mg/L | 2,000 | 6.5 |
| Phosphorus | mg/L | 10 | 0.42 |
| Ammonia | mg/L | 10 | 0.3 |
| Total nitrogen | mg/L | 15 | 1.3 |
| Nitrate | mg/L | 50 | 1.7 |
| Detergent | mg/L | 2 | Less than 2 |
| Oil and grease | mg/L | 15 | Less than 5 |
| Sulfite | mg/L | 1 | Less than 1 |
| lpha -Benzene | ug/L | 2,000 | Less than 0.5 |
| $eta \gamma$ -Benzene | ug/L | (total for three substances at | Less than 1 |
| ⊿- Benzene | ug/L | left = HCH) | Less than 0.5 |
| Dichlorodiphenyltrichloroethane (DDT) | mg/L | 0.2 | Less than 0.1 |
| Aldrin | ug/L | 2 | Less than 0.5 |
| Endrin | ug/L | 2 | Less than 0.5 |
| Dieldrin | ug/L | 2 | Less than 0.5 |
| Pentachlorophenol (PCP) | mg/L | 1 | Less than 0.1 |
| Hexachlorobutadiene (HCBD) | mg/L | 1.5 | Less than 0.1 |
| НСВ | mg/L | 1 | Less than 0.1 |
| Carbon tetrachloride (CBNTET) | mg/L | 1.5 | Less than 0.1 |
| Tetrachloroethylene | mg/L | 1.5 | Less than 0.1 |
| Chloroform | mg/L | 1 | Less than 1 |
| Total petroleum hydrocarbons | mg/L | 1 | Less than 1 |
| Acetaldehyde | mg/L | 1 | Less than 0.1 |
| Isodrin | ug/L | 2 | Not measured |
| | ug/L | | . vot measureu |

■ Water Sewage Drainage (dishwater)

| ltem | Unit | Regulatory limit | Measured value |
|------------------------------|------|------------------|-----------------|
| рН | - | 6.0-10.0 | 7 |
| Temperature | ℃ | 45 | 20.5 |
| Color | TCU | 80 | 60 |
| Solid size | cm | 5 | Less than 1 |
| Suspended solids | mg/L | 1,000 | 68 |
| Sulphate as SO4 | mg/L | 100 | Less than 0.1 |
| BOD | mg/L | 1,000 | 35 |
| COD | mg/L | 2,000 | 120 |
| Total surfactants | mg/L | 75 | Less than 2 |
| Arsenic | mg/L | 1 | Less than 0.025 |
| Cadmium | mg/L | 0.2 | Less than 0.001 |
| Lead | mg/L | 2.5 | Less than 0.008 |
| Copper | mg/L | 5 | 0.023 |
| Hexavalent Chromium | mg/L | 0.1 | Less than 0.03 |
| Chromium | mg/L | 2 | Less than 0.002 |
| Nickel | mg/L | 4 | Less than 0.01 |
| Mercury | mg/L | 0.05 | Less than 0.03 |
| Total cyanide | mg/L | 1 | Less than 0.05 |
| PhenoIs | mg/L | 10 | Less than 0.1 |
| Total petroleum hydrocarbons | mg/L | 15 | 5 |
| Chlorine-Total residual | mg/L | 1 | 0.15 |
| Oil and grease | mg/L | 100 | 6.7 |

^{*1} Regulatory limits were exceeded due to a malfunctioning combustion gas burner, and adjusting the burner improved performance.

Sumitomo Bakelite (Taiwan) Co., Ltd. ✓

■ Air No relevant facilities

■ Water

| ltem | Unit | Regulatory limit | Measured value |
|------|------|------------------|----------------|
| рН | - | 5-9 | 7.3-8.3 |
| COD | mg/L | 480 | 280 |
| ss | mg/L | 240 | 143 |

Note: The standards are the regulatory limits of the industrial complex.

Vaupell China Molding & Tooling ✓

Air No relevant facilitiesWater No relevant facilities

Overseas: Southeast Asia

SNC Industrial Laminates Sdn. Bhd.

■ Air

| Facility | Item | Unit | Regulatory limit | Measured value |
|-------------|---------------|-------|------------------|-----------------|
| Exhaust gas | SOx | g/m³N | 0.05 | Less than 0.01 |
| | NOx | g/m³N | 0.2 | Less than 0.001 |
| | Soot and dust | g/m³N | 0.1 | 0.018 |

■ Water

| Temperature ℃ 40 26 BOD mg/L 50 22 COD mg/L 50 22 COD mg/L 200 188 Suspended solids mg/L 100 24 Phenols mg/L 1 Less than 0.0 Mercury mg/L 0.05 Less than 0.00 Cadmium mg/L 0.02 Less than 0.00 Hexavalent chromium mg/L 0.05 Less than 0.01 Arsenic mg/L 0.1 Less than 0.00 Cyanide mg/L 0.1 Less than 0.0 Lead mg/L 0.5 Less than 0.0 Trivalent chromium compounds mg/L 1 Less than 0.0 Copper mg/L 1 0.06 Soluble manganese mg/L 1 0.02 Soluble manganese mg/L 1 0.14 Tin mg/L 1 1 1 Boron mg/L 2 | ltem | Unit | Regulatory limit | Measured value |
|---|------------------------------|------|------------------|-----------------|
| BOD mg/L 50 22 COD mg/L 200 188 Suspended solids mg/L 100 24 Phenols mg/L 1 Less than 0.01 Mercury mg/L 0.05 Less than 0.01 Cadmium mg/L 0.02 Less than 0.01 Hexavalent chromium mg/L 0.05 Less than 0.01 Arsenic mg/L 0.1 Less than 0.01 Cyanide mg/L 0.1 Less than 0.01 Lead mg/L 0.5 Less than 0.01 Trivalent chromium compounds mg/L 1 Less than 0.01 Copper mg/L 1 0.05 Soluble manganese mg/L 1 0.04 Nickel mg/L 1 0.04 Nickel mg/L 1 Less than 0.01 Zinc mg/L 2 0.44 Boron mg/L 4 Less than 0.1 Soluble iron mg/L 2 <td>рН</td> <td>_</td> <td>5.5-9.0</td> <td>5.6-8.8</td> | рН | _ | 5.5-9.0 | 5.6-8.8 |
| COD mg/L 200 188 Suspended solids mg/L 100 24 Phenols mg/L 1 Less than 0.01 Mercury mg/L 0.05 Less than 0.01 Cadmium mg/L 0.02 Less than 0.01 Hexavalent chromium mg/L 0.05 Less than 0.01 Arsenic mg/L 0.1 Less than 0.01 Cyanide mg/L 0.1 Less than 0.01 Lead mg/L 0.5 Less than 0.01 Copper mg/L 1 Less than 0.01 Copper mg/L 1 0.02 Soluble manganese mg/L 1 0.04 Nickel mg/L 1 0.04 Tin mg/L 1 Less than 0.01 Zinc mg/L 2 0.44 Boron mg/L 4 Less than 0.1 Soluble iron mg/L 5 0.48 Chloride mg/L 2 Less | Temperature | ℃ | 40 | 28 |
| Suspended solids mg/L 100 24 Phenols mg/L 1 Less than 0.0 Mercury mg/L 0.05 Less than 0.00 Cadmium mg/L 0.02 Less than 0.00 Hexavalent chromium mg/L 0.05 Less than 0.00 Arsenic mg/L 0.1 Less than 0.00 Cyanide mg/L 0.1 Less than 0.0 Lead mg/L 0.5 Less than 0.0 Trivalent chromium compounds mg/L 1 Less than 0.0 Copper mg/L 1 0.06 Soluble manganese mg/L 1 0.04 Nickel mg/L 1 1 0.04 Nickel mg/L 1 1 Less than 0.0 Zinc mg/L 2 0.44 Boron mg/L 4 Less than 0.1 Soluble iron mg/L 5 0.48 Chloride mg/L 0.5 Less than 0.1 <td< td=""><td>BOD</td><td>mg/L</td><td>50</td><td>22</td></td<> | BOD | mg/L | 50 | 22 |
| Phenois mg/L 1 Less than 0.00 Mercury mg/L 0.05 Less than 0.00 Cadmium mg/L 0.02 Less than 0.01 Hexavalent chromium mg/L 0.05 Less than 0.01 Arsenic mg/L 0.1 Less than 0.01 Cyanide mg/L 0.1 Less than 0.01 Lead mg/L 0.5 Less than 0.01 Copper mg/L 1 Less than 0.01 Copper mg/L 1 0.02 Soluble manganese mg/L 1 0.04 Nickel mg/L 1 Less than 0.01 Zinc mg/L 1 Less than 0.01 Zinc mg/L 2 0.42 Boron mg/L 4 Less than 0.1 Soluble iron mg/L 5 0.45 Chloride mg/L 2 Less than 0.1 Sulfur mg/L 0.5 Less than 0.1 Chloride mg/L <th< td=""><td>COD</td><td>mg/L</td><td>200</td><td>185</td></th<> | COD | mg/L | 200 | 185 |
| Mercury mg/L 0.05 Less than 0.001 Cadmium mg/L 0.02 Less than 0.001 Hexavalent chromium mg/L 0.05 Less than 0.01 Arsenic mg/L 0.1 Less than 0.01 Cyanide mg/L 0.1 Less than 0.01 Lead mg/L 0.5 Less than 0.01 Trivalent chromium compounds mg/L 1 Less than 0.01 Copper mg/L 1 0.02 Soluble manganese mg/L 1 0.04 Nickel mg/L 1 Less than 0.01 Tin mg/L 1 Less than 0.01 Zinc mg/L 2 0.42 Boron mg/L 2 0.42 Boron mg/L 4 Less than 0.1 Soluble iron mg/L 5 0.45 Chloride mg/L 2 Less than 0.1 Sulfur 0.5 Less than 0.1 Chland grease mg/L 0.5 </td <td>Suspended solids</td> <td>mg/L</td> <td>100</td> <td>24</td> | Suspended solids | mg/L | 100 | 24 |
| Cadmium mg/L 0.02 Less than 0.01 Hexavalent chromium mg/L 0.05 Less than 0.01 Arsenic mg/L 0.1 Less than 0.01 Cyanide mg/L 0.1 Less than 0.01 Lead mg/L 0.5 Less than 0.01 Trivalent chromium compounds mg/L 1 Less than 0.01 Copper mg/L 1 0.05 Soluble manganese mg/L 1 0.04 Nickel mg/L 1 Less than 0.01 Zinc mg/L 1 Less than 0.01 Zinc mg/L 2 0.42 Boron mg/L 4 Less than 0.1 Soluble iron mg/L 5 0.45 Chloride mg/L 2 Less than 0.1 Sulfur mg/L 0.5 Less than 0.1 Formaldehyde mg/L 2 Less than 0.1 | Phenols | mg/L | 1 | Less than 0.1 |
| Hexavalent chromium | Mercury | mg/L | 0.05 | Less than 0.001 |
| Arsenic mg/L 0.1 Less than 0.001 Cyanide mg/L 0.1 Less than 0.01 Lead mg/L 0.5 Less than 0.01 Copper mg/L 1 Less than 0.01 Copper mg/L 1 0.02 Soluble manganese mg/L 1 0.04 Nickel mg/L 1 Less than 0.01 Tin mg/L 1 Less than 0.01 Zinc mg/L 2 0.42 Boron mg/L 4 Less than 0.1 Soluble iron mg/L 5 0.48 Chloride mg/L 2 Less than 0.1 Sulfur mg/L 0.5 Less than 0.1 Oil and grease mg/L 10 Less than 0.1 Formaldehyde mg/L 2 Less than 0.1 | Cadmium | mg/L | 0.02 | Less than 0.01 |
| Cyanide mg/L 0.1 Less than 0.01 Lead mg/L 0.5 Less than 0.1 Trivalent chromium compounds mg/L 1 Less than 0.01 Copper mg/L 1 0.02 Soluble manganese mg/L 1 0.04 Nickel mg/L 1 Less than 0.01 Tin mg/L 1 Less than 0.01 Zinc mg/L 2 0.42 Boron mg/L 4 Less than 0.01 Soluble iron mg/L 5 0.48 Chloride mg/L 2 Less than 0.01 Sulfur mg/L 0.5 Less than 0.01 Oil and grease mg/L 10 Less than 0.00 Formaldehyde mg/L 2 Less than 0.00 | Hexavalent chromium | mg/L | 0.05 | Less than 0.01 |
| Lead mg/L 0.5 Less than 0.1 Trivalent chromium compounds mg/L 1 Less than 0.0 Copper mg/L 1 0.06 Soluble manganese mg/L 1 0.04 Nickel mg/L 1 Less than 0.00 Zinc mg/L 2 0.44 Boron mg/L 4 Less than 0.1 Soluble iron mg/L 5 0.48 Chloride mg/L 2 Less than 0.1 Sulfur mg/L 0.5 Less than 0.1 Oil and grease mg/L 10 Less than 0.1 Formaldehyde mg/L 2 Less than 0.1 | Arsenic | mg/L | 0.1 | Less than 0.001 |
| Trivalent chromium compounds mg/L 1 Less than 0.01 | Cyanide | mg/L | 0.1 | Less than 0.01 |
| Copper mg/L 1 0.05 Soluble manganese mg/L 1 0.04 Nickel mg/L 1 0.14 Tin mg/L 1 Less than 0.001 Zinc mg/L 2 0.44 Boron mg/L 4 Less than 0.1 Soluble iron mg/L 5 0.48 Chloride mg/L 2 Less than 1 Sulfur mg/L 0.5 Less than 0.1 Oil and grease mg/L 10 Less than 1 Formaldehyde mg/L 2 Less than 0.1 | Lead | mg/L | 0.5 | Less than 0.1 |
| Soluble manganese mg/L 1 0.04 Nickel mg/L 1 0.14 Tin mg/L 1 Less than 0.001 Zinc mg/L 2 0.44 Boron mg/L 4 Less than 0.1 Soluble iron mg/L 5 0.48 Chloride mg/L 2 Less than 1 Sulfur mg/L 0.5 Less than 0.1 Oil and grease mg/L 10 Less than 1 Formaldehyde mg/L 2 Less than 0.1 | Trivalent chromium compounds | mg/L | 1 | Less than 0.01 |
| Nickel mg/L 1 0.14 Tin mg/L 1 Less than 0.001 Zinc mg/L 2 0.44 Boron mg/L 4 Less than 0.1 Soluble iron mg/L 5 0.48 Chloride mg/L 2 Less than 1 Sulfur mg/L 0.5 Less than 0.1 Oil and grease mg/L 10 Less than 1 Formaldehyde mg/L 2 Less than 0.1 | Copper | mg/L | 1 | 0.05 |
| Tin mg/L 1 Less than 0.001 | Soluble manganese | mg/L | 1 | 0.04 |
| Zinc mg/L 2 0.44 Boron mg/L 4 Less than 0.1 Soluble iron mg/L 5 0.48 Chloride mg/L 2 Less than 1 Sulfur mg/L 0.5 Less than 0.1 Oil and grease mg/L 10 Less than 1 Formaldehyde mg/L 2 Less than 0.1 | Nickel | mg/L | 1 | 0.14 |
| Boron mg/L 4 Less than 0.1 Soluble iron mg/L 5 0.48 Chloride mg/L 2 Less than 1 Sulfur mg/L 0.5 Less than 0.1 Oil and grease mg/L 10 Less than 1 Formaldehyde mg/L 2 Less than 0.1 | Tin | mg/L | 1 | Less than 0.001 |
| Soluble iron mg/L 5 0.48 Chloride mg/L 2 Less than 1 Sulfur mg/L 0.5 Less than 0.1 Oil and grease mg/L 10 Less than 1 Formaldehyde mg/L 2 Less than 0.1 | Zinc | mg/L | 2 | 0.44 |
| Chloride mg/L 2 Less than 1 Sulfur mg/L 0.5 Less than 0.1 Oil and grease mg/L 10 Less than 1 Formaldehyde mg/L 2 Less than 0.1 | Boron | mg/L | 4 | Less than 0.1 |
| Sulfur mg/L 0.5 Less than 0.1 Oil and grease mg/L 10 Less than 1 Formaldehyde mg/L 2 Less than 0.1 | Soluble iron | mg/L | 5 | 0.48 |
| Oil and grease mg/L 10 Less than 1 Formaldehyde mg/L 2 Less than 0.1 | Chloride | mg/L | 2 | Less than 1 |
| Formaldehyde mg/L 2 Less than 0.1 | Sulfur | mg/L | 0.5 | Less than 0.1 |
| | Oil and grease | mg/L | 10 | Less than 1 |
| Selenium mg/L 0.5 Less than 0.001 | Formaldehyde | mg/L | 2 | Less than 0.1 |
| | Selenium | mg/L | 0.5 | Less than 0.001 |

| ltem | Unit | Regulatory limit | Measured value |
|-------------------|------|------------------|----------------|
| Aluminum | mg/L | 15 | Less than 1 |
| Silver | mg/L | 1 | Less than 0.05 |
| Barium | mg/L | 2 | Less than 1 |
| Fluorides | mg/L | 5 | 4 |
| Ammonium nitrogen | mg/L | 20 | Less than 1 |
| Color tone | ADMI | 200 | 22 |

^{*2} According to the company that performs the measurements, if the three items (aldrin, endrin, and dieldrin) do not exceed the regulatory limit, the content of isodrin is virtually zero and, therefore, it is not measured.

Sumitomo Bakelite Singapore Pte. Ltd. ✓

Business Activities in Harmony with the Environment

■ Air No relevant facilities

■ Water

| Water | | | | | |
|---------------------------------------|-------|------------------|------------------|--|--|
| ltem | Unit | Regulatory limit | Measured value | | |
| рН | _ | 6-9 | 7.4 | | |
| Temperature | ℃ | 45 | 27 | | |
| BOD | mg/L | 400 | 110 | | |
| COD | mg/L | 600 | 180 | | |
| Suspended solids | mg/L | 400 | 33 | | |
| Total dissolved solids | mg/L | 3,000 | 160 | | |
| Phenols | mg/L | 0.5 | 0.031 | | |
| Chlorine | mg/L | 1,000 | 46 | | |
| Sulfate | mg/L | 1,000 | 18 | | |
| Sulfur | mg/L | 1 | 0.01 | | |
| Cyanide | mg/L | 2 | Less than 0.01 | | |
| Linear alkyl sulfonate | mg/L | 30 | Less than 1 | | |
| Oil and grease (hydrocarbon-based) | mg/L | 60 | 1.2 | | |
| Oil and grease (non-hydrocarbon- | m a/l | 100 | 2.5 | | |
| based) | mg/L | 100 | 3.5 | | |
| Caustic alkalinity | mg/L | 2,000 | Less than 1 | | |
| Fluorides | mg/L | 15 | 0.58 | | |
| Arsenic and its compounds | mg/L | 5 | Less than 0.05 | | |
| Barium | mg/L | 10 | Less than 0.05 | | |
| Tin | mg/L | 10 | Less than 0.05 | | |
| Soluble iron | mg/L | 50 | 0.66 | | |
| Beryllium | mg/L | 5 | Less than 0.05 | | |
| Boron | mg/L | 5 | Less than 0.05 | | |
| Soluble manganese | mg/L | 10 | Less than 0.05 | | |
| Cadmium | mg/L | 1 | Less than 0.01 | | |
| Chromium | mg/L | 5 | Less than 0.05 | | |
| Copper | mg/L | 5 | Less than 0.05 | | |
| Lead | mg/L | 5 | Less than 0.05 | | |
| Mercury | mg/L | 0.5 | Less than 0.0005 | | |
| Nickel | mg/L | 10 | Less than 0.05 | | |
| Selenium | mg/L | 10 | Less than 0.05 | | |
| Silver | mg/L | 5 | Less than 0.05 | | |
| Zinc | | 10 | 0.06 | | |
| | mg/L | 10 | Less than 0.1 | | |
| Total metals (toxic) Dichloromethane | mg/L | 0.01 | Not detected | | |
| | mg/L | | | | |
| Trichloroethylene | mg/L | 0.01 | Not detected | | |
| 1,1,1-Trichloroethane | mg/L | 0.01 | Not detected | | |
| Carbon tetrachloride | mg/L | 0.01 | Not detected | | |
| 1,1,2-Trichloroethane | mg/L | 0.01 | Not detected | | |
| Toluene | mg/L | 0.01 | Not detected | | |
| Styrene | mg/L | 0.01 | Not detected | | |
| Methyltert-butylether | mg/L | 0.01 | Not detected | | |
| Nonane | mg/L | 0.01 | Not detected | | |
| Decane | mg/L | 0.01 | Not detected | | |
| Tetrachloroethylene | mg/L | 0.01 | Not detected | | |
| Ethylbenzene | mg/L | 0.01 | Not detected | | |
| Xylene(o,m,p) | mg/L | 0.01 | Not detected | | |
| Hexane | mg/L | 0.01 | Not detected | | |
| Heptane | mg/L | 0.01 | Not detected | | |
| Octane | mg/L | 0.01 | Not detected | | |
| 1,2,4-Trimethylbenzene | mg/L | 0.01 | Not detected | | |
| Furan | mg/L | 0.01 | Not detected | | |
| THF(Tetrahydrofuran) | mg/L | 0.05 | Not detected | | |
| DMF(N,N-Dimethylformamide) | mg/L | 0.05 | Not detected | | |
| Benzene | mg/L | 0.01 | Not detected | | |
| Turpentine | mg/L | 0.01 | Not detected | | |
| Polybrominateddiphenylether | mg/L | 0.1 | Not detected | | |
| Isobutyl alcohol | mg/L | 0.05 | Not detected | | |
| Methylethylketone | mg/L | 0.01 | Not detected | | |
| Methylisobutylketone | mg/L | 0.01 | Not detected | | |
| Isopropylether | mg/L | 0.01 | Not detected | | |
| Diethylether | mg/L | 0.01 | Not detected | | |
| Dimethylsulphide | mg/L | 0.01 | Not detected | | |
| Dimethylsulphoxide | mg/L | 0.2 | Not detected | | |
| 2stryisuiprioxius | mg/L | 1 0.2 | I VOI GETECIEG | | |

SumiDurez Singapore Pte. Ltd. ✓

■ Air

| Facility | ltem | Unit | Regulatory limit | Measured value |
|------------|---------------|--------|------------------|----------------|
| Bag filter | Soot and dust | mg/Nm³ | 100 | 44 |

Site Report

■ Water

| ltem | Unit | Regulatory limit | Measured value |
|--|------|------------------|----------------|
| Temperature | ℃ | 45 | 21.5 |
| рН | - | 6-9 | 7.3 |
| Colour,Lovibond units | _ | 7 | 0.2 |
| BOD | mg/L | 50 | 5.4 |
| COD | mg/L | 100 | 9 |
| TSS | mg/L | 50 | 6 |
| Sulfur | mg/L | 0.2 | Less than 0.2 |
| Cyanide | mg/L | 0.1 | Less than 0.02 |
| Linear alkyl sulfonate | mg/L | 15 | Less than 0. |
| Oil and grease (hydrocarbon-based) | mg/L | 10 | Less than 10.0 |
| Oil and grease (non-hydrocarbon- based) | mg/L | 10 | Less than 10.0 |
| Arsenic and its compounds | mg/L | 0.1 | Less than 0.0! |
| Barium | mg/L | 2 | 0.0 |
| Soluble iron | mg/L | 10 | 0. |
| Boron | mg/L | 5 | 0.2 |
| Soluble manganese | mg/L | 5 | Less than 0.0! |
| Phoenols | mg/L | 0.2 | 0.0 |
| Cadmium | mg/L | 0.1 | Less than 0.0 |
| Chromium | mg/L | 1 | Less than 0.0 |
| Copper | mg/L | 0.1 | Less than 0.0 |
| Lead | mg/L | 0.1 | Less than 0.0! |
| Mercury | mg/L | 0.05 | Less than 0.0 |
| Nickel | mg/L | 1 | Less than 0.0 |
| Selenium | mg/L | 0.5 | Less than 0.0 |
| Silver | mg/L | 0.1 | Less than 0.0 |
| Zinc | mg/L | 1 | 0.1 |
| Total metals (toxic) | mg/L | 1 | 0. |
| Free chlorine | mg/L | 1 | Less than 0. |
| Phosphate (PO4) | mg/L | 5 | Less than 0. |

^{*}These substances were added in fiscal 2015.

P.T. Indopherin Jaya 🗹

■ Air

| ltem | Unit | Regulatory limit | Measured value |
|-------------------------------------|--------|------------------|------------------|
| Carbon monoxide (CO) | mg/Nm³ | 100 | 1,046 |
| Nitrogen dioxide (NO ₂) | mg/Nm³ | 300 | 29.1 |
| Sulfur dioxide (SO ₂) | mg/Nm³ | 250 | 20.7 |
| Total particles | mg/Nm³ | 50 | 36.4 |
| Lead (Pb) | mg/Nm³ | 5 | 0.1471 |
| Hydrogen fluoride (HF) | mg/Nm³ | 10 | 13.69 |
| Hydrogen chloride (HCL) | mg/Nm³ | 70 | 20.65 |
| Mercury (Hg) | mg/Nm³ | 0.2 | Less than 0.0007 |
| Cadmium (Cd) | mg/Nm³ | 0.2 | 0.0125 |
| Arsenic (As) | mg/Nm³ | 1 | 0.00126 |
| Chromium (Cr) | mg/Nm³ | 1 | 0.5848 |
| Thallium (TI) | mg/Nm³ | 0.2 | 0.00447 |
| Total hydrocarbon (HC) | mg/Nm³ | 35 | Less than 0.0035 |
| Opacity | % | 10 | 0 |

■ Water

| ltem | Unit | Regulatory limit | Measured value |
|------------------|------|------------------|----------------|
| Н | - | 6-9 | 6.3-8.4 |
| BOD | mg/L | 100 | 15.43 |
| COD | mg/L | 300 | 37.27 |
| Suspended solids | mg/L | 100 | 32.2 |
| Total nitrogen | mg/L | 30 | 11.56 |
| Phenols | mg/L | 1 | 0.2 |

^{*1} Regulatory limits were exceeded due to a malfunctioning combustion gas burner, and adjusting the burner improved performance.

P.T. SBP Indonesia 🗹

■ Air No relevant facilities

■ Water

| ltem | Unit | Regulatory limit | Measured value |
|------------------|------|------------------|----------------|
| рН | - | 5.5-9.5 | 8.15 |
| Temperature | ℃ | 40 | 31.9 |
| BOD | mg/L | 200 | 3.96 |
| COD | mg/L | 400 | 10 |
| Suspended solids | mg/L | 400 | 4 |
| Dissolved solids | mg/L | 4,000 | 288 |

| ltem | Unit | Regulatory limit | Measured value |
|--------------------|------|------------------|------------------|
| Iron | mg/L | 10 | 0.1669 |
| Manganese | mg/L | 4 | Less than 0.003 |
| Barium | mg/L | 4 | 0.1889 |
| Copper | mg/L | 4 | 0.0275 |
| Zinc | mg/L | 10 | 0.0978 |
| Chromium compounds | mg/L | 1 | 0.0379 |
| Cadmium | mg/L | 0.1 | Less than 0.0012 |
| Mercury | mg/L | 0.004 | Less than 0.0001 |
| Lead | mg/L | 0.2 | 0.0811 |
| Tin | mg/L | 4 | Less than 0.25 |
| Arsenic | mg/L | 0.2 | Less than 0.15 |
| Selenium | mg/L | 0.1 | Less than 0.06 |
| Nickel | mg/L | 0.4 | 0.0853 |
| Cobalt | mg/L | 0.8 | 0.0211 |
| Cyanogen | mg/L | 0.1 | 0.01 |
| Hydrogen sulfide | mg/L | 0.1 | 0.011 |
| Fluorine | mg/L | 4 | 0.51 |
| Ammonium nitrogen | mg/L | 2 | Less than 0.02 |
| Nitrate-nitrogen | mg/L | 40 | 0.01 |
| Nitrite-nitrogen | mg/L | 2 | 0.009 |

Overseas: North America

Sumitomo Bakelite North America, Inc. (Manchester Plant) ✓

■ Air

| Facility | Item | Unit | Regulatory limit | Measured value |
|-------------------------------------|-------------------|---------------|------------------|----------------|
| Long fiber process (Drying process) | Acetone emissions | tons/ year | 40 | 14.1 |
| | SOx | tons/ year | 0.002 | 0.001 |
| | NOx | tons/ year | 0.38 | 0.14 |
| Condor process (Drying process) | со | tons/ year | 0.32 | 0.12 |
| | VOC emissions | tons/ year | 15 | 3.57 |
| | Soot and dust | tons/ year | 1.23 | 0.11 |
| Site total | VOC emissions | tons/ year | 45 | 15.54 |
| Site total | HAPs | tons/ year | 25 | 0.072 |

■ Water

| Facility | Item | Unit | Regulatory limit | Measured value |
|----------------------------|-----------------------------|------------|------------------|----------------|
| | Chlorine | μg/L | 6.5 | Not detected |
| | Copper | μg/L | 4.9 | Not detected |
| | Flow | MM gal/day | 0.45 | 0.223 |
| NCCW | Lead | μg/L | 0.79 | Not detected |
| discharge | Oil and grease | mg/L | 5 | Not detected |
| (noncontact cooling water) | рН | _ | 6.0~9.0 | 7.85~8.48 |
| cooming water, | Temperature | F | 85 | 64.8 |
| | Suspended solids | mg/L | 20 | Not detected |
| | Aquatic toxicity - 48 hours | % | >90 | 98 |
| | Zinc | mg/L | 0.16 | 0.097 |
| | Oil and grease | mg/L | 5 | Less than 1.4 |
| Storm water discharge | Nitrogen | mg/L | 2.3 | 0.71 |
| a.cca.gc | Phosphorus | mg/L | 0.4 | 0.18 |
| | Suspended solids | mg/L | 90 | 32 |

Durez Corporation (Kenton Plant) ✓

■ Air

| ltem | Unit | Regulatory limit | Measured value |
|---------------------------------------|-----------|------------------|----------------|
| Total emissions of particulate matter | tons/year | 50 | 34.324 |

^{*} Particulate matter includes particles, volatile organic compounds, SO2, NOx, and CO.

■ Water

| ltem | Unit | Regulatory limit | Measured value |
|------------------|------|--|---|
| Phenols | μg/L | 20 | Less than 10 |
| рН | - | 6.5-9.0 | 7.0~8.4 |
| Ammonia-N | mg/L | Less than 12 (winter) Less than 2.25 (summer) | 1.08(winter) 1.34 (summer) |
| CBOD | mg/L | Less than 38 (winter) Less than 15 (summer) | 6.3 (winter) Less than 3.0 (summer) |
| Oil and grease | mg/L | 10 | 6.8 |
| Total phosphorus | mg/L | - | 0.9 |
| Dissolved solids | mg/L | - | 1,240 |
| Suspended solids | mg/L | 45 | 14 |
| Strontium | μg/L | 30,000 | 5920 |

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^{*} Standards are recommended target values. Even if measured values exceed the standards, no action is required.
* COD from the storm water discharge is excluded from the items subject to measurement.

Durez Corporation (Niagara Falls Plant) ✓

■ Air No relevant facilities

■ Water

| ltem | Unit | Regulatory limit | Measured value |
|------------------------|------------|------------------|----------------|
| рН | - | 5-10 | 6-8 |
| Phenols | lbs./day | 30 | 18.480 |
| Flow | MM gaL/day | 0.1 | 0.054 |
| Suspended solids | lbs./day | 75 | 11.95 |
| Soluble organic carbon | lbs./day | 800 | 340.35 |
| Phosphorous | lbs/day | 17 | 0.11 |

 $^{^{*}1}$ The pH of the drainage water is controlled by neutralizing the pH using caustic soda and controlled between 6 and 8.

Durez Canada Co., Ltd. 🗹

■ Air

| ltem | Unit | Regulatory limit | Measured value |
|--------------|---------|------------------|----------------|
| Phenol | kg/year | 21,319 | 4,502 |
| Formaldehyde | kg/year | 504 | 59 |
| NOx | kg/year | 93,830 | 2,674 |
| Ammonia | kg/year | 36,881 | 26,066 |
| Ethanol | kg/year | 672,451 | 40,028 |

■ Water

| ltem | Unit | Regulatory limit | Measured value |
|-------------------|------|------------------|----------------|
| Chloride | mg/L | 3,000 | 119 |
| рН | _ | 6~11 | 8.97 |
| Total phosphorus | mg/L | 10 | 4.58 |
| Sulfate | mg/L | 1,500 | 109 |
| BOD | mg/L | 300 | 189 |
| Kjeldahl nitrogen | mg/L | 100 | 29.8 |
| Suspended solids | mg/L | 350 | 233 |
| Phenols | mg/L | 1 | 0.645 |

Promerus LLC ✓

■ Air

| ltem | Unit | Regulatory limit | Measured value |
|---------------|--------|------------------|----------------|
| VOC emissions | t/year | 1 | 0.057 |

■ Water No relevant facilities

Overseas: Europe

Sumitomo Bakelite Europe N.V. 🗹

■ Air

| ltem | Item | Unit | Regulatory limit | Measured value |
|--------|------|--------|------------------|----------------|
| Boiler | NOx | mg/m³N | 150 | 111 |
| Boller | СО | mg/m³N | 100 | Less than 5 |

■ Water

| ltem | Unit | Regulatory limit | Measured value |
|----------------------------------|------|------------------|----------------|
| рН | - | 6~9.5 | 6.8~8.5 |
| COD | mg/L | 125 | 11 |
| SS | mg/L | 1,000 | 2.1 |
| TOC | mg/L | 50 | Less than 2 |
| PhenoIs | μg/L | 3 | Less than 0.5 |
| Total nitrogen | mg/L | 10 | Less than 2 |
| Total phosphorus | mg/L | 2 | Less than 0.15 |
| Adsorbable organic halogen (AOX) | μg/L | 200 | Less than 20 |
| 2,3,5trimethylphenol | μg/L | 0.1 | Less than 0.04 |
| 2,4Dimethylphenol | μg/L | 0.1 | Less than 0.02 |
| 2 Methylphenol | μg/L | 0.1 | Less than 0.3 |
| 3 Methylphenol | μg/L | 0.1 | Less than 0.3 |
| 4 Methylphenol | μg/L | 0.3 | Less than 0.2 |
| Nonylphenol | μg/L | 1.5 | Less than 1.0 |
| Octylphenol | μg/L | 0.3 | Less than 0.1 |
| BisphenolA | μg/L | 3 | Less than 0.05 |
| Arsenic | μg/L | 50 | Less than 15 |
| Chromium | μg/L | 100 | Less than 10 |
| Nickel | μg/L | 60 | Less than 10 |
| Chloride | mg/L | 500 | 220 |

Sumitomo Bakelite Europe (Barcelona), S.L.U. $ot \Sigma$

■ Air

| Item | ltem | Unit | Regulatory limit | Measured value |
|--------|------|--------|------------------|----------------|
| | SOx | mg/m³N | 4,300 | Not detected |
| Boiler | NOx | mg/m³N | 450 | 186 |
| | со | mg/m³N | 100 | 122 |

■ Water

| ltem | Unit | Regulatory limit | Measured value |
|------------------|-------|------------------|----------------|
| рН | - | 5,5-11 | 7.2-8.9 |
| COD | mg/L | 2,500 | 1,220 |
| Suspended solids | mg/L | 1,500 | 440 |
| Phenols | mg/L | 2 | Less than 0.5 |
| Conductivity | μs/cm | 13,000 | 4,500 |
| Total chlorine | mg/L | 3,500 | 663 |
| Total sulfides | mg/L | 1,000 | 998 |
| Total phosphorus | mg/L | 75 | 4 |
| 10000 | - | | |

Vyncolit N.V. ✓

■ Air

| ltem | Unit | Regulatory limit | Measured value |
|--------------|--------|------------------|----------------|
| Phenols | mg/m³N | 20 | 41 |
| Ammonia | mg/m³N | 35 | 38 |
| Formaldehyde | mg/m³N | 20 | 1.46 |
| Total dust | mg/m³N | 150 | 1.12 |

■ Water

| ltem | Unit | Regulatory limit | Measured value |
|------------------|------|------------------|-----------------|
| Zinc | mg/L | 1.4 | 0.489 |
| Copper | mg/L | 0.2 | Less than 0.020 |
| Phenol | mg/L | 0.4 | 0.14 |
| Molybdenum | mg/L | 5 | 0.02 |
| Total phosphorus | mg/L | 14 | Less than 0.15 |

^{*} D-line: The pre filter is installed. Unfortunatelly it is not enough. TheD-line is a production line with a considerable capacity. We have to change the filter bags of the dust filter more frequently. We have changed our method. Instead of waiting for the results from the measurements, we will change the filter bags when we have reached a certain production volume (for D-line: 2500T)

Vaupell Northwest Molding & Tooling ✓

■ Air No relevant facilities

■ Water No relevant facilities

Vaupell Northeast Molding & Tooling ✓

■ Air No relevant facilities

■ Water No relevant facilities

Vaupell Midwest Molding & Tooling ✓

■ Air No relevant facilities

■ Water No relevant facilities

Vaupell Rapid Solutions ✓

■ Air No relevant facilities

■ Water No relevant facilities

Russell Plastics Technology Co., Inc. ✓

■ Air No relevant facilities

■ Water No relevant facilities

Transfer and Release of Substances Subject to the PRTR Law (Fiscal 2015 Performance) 🔽

The amounts of the 39 substances subject to the PRTR Law (PRTR system*) released and transferred by the Group's business sites in Japan are presented in the table below.

| | | Amount used | | Release | | Transfer | |
|-------------------------|--|---------------------|------------|------------|-----------|-------------------|-----------|
| Government order number | Substance | (manufactured) | Into air | Into water | Into soil | As waste material | As sewage |
| 1 | Zinc compounds (water-soluble) | 15.9 | | | | | |
| 18 | Aniline | 215.2 | | | | 0.4 | |
| 31 | Antimony and its compounds | 55.2 | | | | 2.0 | |
| 37 | Bisphenol A | 214.9 | | | | 0.1 | |
| 51 | 2-ethylhexanoic acid | 3.2 | | | | | |
| 53 | Ethyl benzene | 25.8 | | | | 7.2 | |
| 56 | Ethylene oxide | 0.9 | | | | | |
| 57 | Ethylene glycol monoethyl ether | 11.9 | | | | | |
| 71 | Ferric chloride | 4.1 | | | | 4.1 | |
| 78 | 2,4-xylenol | 18.1 | | | | | |
| 79 | 2,6-xylenol | 7.6 | | | | | |
| 80 | Xylene | 37.4 | | | | 9.7 | |
| 82 | Silver and its water-soluble compounds | 17.3 | | | | | |
| 86 | Cresol | 1,383.8 | | | | 0.8 | |
| 136 | Salicylaldehyde | 2.0 | | | | | |
| 207 | 2,6-di-tert-butyl-4-cresol | 3.7 | | | | | |
| 218 | Dimethylamine | 2.0 | | | | | |
| 232 | N, N-dimethyl formamide | 358.1 | 1.7 | | | 12.5 | |
| 239 | Organic tin compounds | 26.2 | | | | 1.9 | |
| 258 | Hexamethylenetetramine | 1,053.3 | | | | 22.8 | |
| 265 | Tetrahydromethylphthalic anhydride | 274.2 | | | | 0.2 | |
| 277 | Triethylamine | 7.9 | | | | | |
| 296 | 1,2,4-trimethylbenzene | 1.4 | | | | | |
| 300 | Toluene | 73.0 | 7.7 | | | 5.4 | |
| 302 | Naphthalene | 2.0 | | | | | |
| 309 | Nickel compounds | 0.8 | | | | | |
| 320 | Nonylphenol | 6.4 | | | | | |
| 330 | Bis (1-methyl-1-phenylethyl) = peroxide | 4.9 | | | | | |
| 349 | Phenol | 21,277.5 | 2.4 | | | 32.0 | |
| 352 | Diallyl phthalate | 5.2 | | | | | |
| 355 | Bis (2-ethylhexyl) phthalate | 4.1 | | | | | |
| 375 | 2-butenal | 1.1 | | | | | |
| 392 | n-hexane | 2.5 | 0.4 | | | 0.3 | |
| 401 | 1,2,4-benzene tricarboxylic acid 1,2-anhydride | 14.0 | | | | 1.1 | |
| 405 | Boron and its compounds | 13.1 | | | | 1.4 | |
| 411 | Formaldehyde | 8,457.0 (10,104) | 0.5 0.4 | | | 5.9 | |
| 413 | Phthalic anhydride | 1.3 | 3.1 | | | 0.1 | |
| 438 | Methylnaphthalene | 21.9 | 0.1 | | | | |
| 448 | Methylenebis (4, 1-phenylene) = diisocyanate | 12.1 | | | | | |

Specific Class 1 designated chemical substances * See the glossary on page 79.

Memberships in Leading Organizations (Classifications of Organizations Have Been Omitted)

| Organization | Role of Sumitomo Bakelite |
|---|---|
| Keidanren (Japan Business Federation) | Participates in task forces such as the Nature Protection Deliberation Council and the 1% (One Percent) Club |
| Japan Thermosetting Plastics Industry Association | Participates in the phenol resin/amino resin extrusion materials subcommittee, laminated panel subcommittee, phenol resin subcommittee, adhesives subcommittee, melamine resin decorative panel subcommittee, electronics materials subcommittee, and environment/recycling research subcommittee |
| The Japan Chemical Industry Association | Serves in the General Affairs Department, Technical Affairs Committee, Environmental Safety Committee, Responsible Care Committee and Chemicals Management Committee |
| The Japan Plastics Industry Federation | Participates in the chemicals management committee |
| Japan Plastic Sheet Association | Participates in the polyvinyl chloride sheet subcommittee, corrugated sheet subcommittee, PC sheet subcommittee, environmental committee, and Japan PCV Environmental Affairs Council as an officer of the Association |
| Japan Electronics Packaging and Circuits Association | |
| Medical Technology Association of Japan | Participates in the raw materials committee, regulatory affairs committee, distribution committee, microbe reduction committee, and other committees |
| Japan Chemical Exports and Imports Association | Participates in the chemical substance safety, environmental committee |
| Japan Environmental Management Association for Industry (JEMAI) | Dispatches lecturers to LCA seminars, provides database for LCA use, participates in LCA Japan Forum |
| Japan Industrial Safety & Health Association | Dispatches lecturers for internal training seminars on labor health and safety, participates in seminars |
| Japan Association for Chemical Innovation (JACI) | Participates in the Planning & Management Council as a member on the board of directors. Participates in committees and subcommittees, including Strategy Committee, Strategic Planning Subcommittee, The Advanced Chemistry/Materials Technology Subcommittee, The Life Science Technology Subcommittee, The Energy and Resources Technology Subcommittee, The Electronics and Information Technology Subcommittee, and The Environmental Technology Subcommittee, and assists in information collection and events. |

Environmental Protection Activities

| Year | Sumitomo Bakelite Group's Initiatives | Social developments |
|------|--|--|
| 1969 | Pollution countermeasures secretariat established | |
| 1973 | Environmental Management Division established Environmental auditing of domestic business sites commenced | |
| 1974 | Environmental management departments established for all business sites | |
| 1978 | Environmental auditing of domestic subsidiaries and affiliates commenced | |
| 1987 | | Montreal Protocol on Substances that Deplete the Ozone Layer adopted |
| 1990 | Environmental Issue Action Committee established. Appointment of director in charge | |
| 1991 | Recycling Technology Action Office established | Law Promoting the Use of Recycled Resources enacted |
| 1992 | S.B. Recycle established | United Nations Conference on Environment and Development (UNCED or Earth Summit) results in the "Rio Declaration on Environment and Development", "Agenda 21", etc. |
| 1993 | Environment and Safety Voluntary Plan drafted Environment and safety management regulations established Environmental audits of overseas subsidiaries and affiliates commenced | The Basic Environment Law enacted |
| 1994 | Use of certain CFCs and 1,1,1-trichloroethane ceases | |
| 1995 | Responsible Care Committee established The Company joins the Japan Responsible Care Council as a founding member | Japan Responsible Care Council (JRCC) established Law for Promotion of Sorted Collection and Recycling of Containers and Packaging enacted |
| 1997 | Corporate Policies for Safety, Health, and the Environment revised, and Utsunomiya Plant and Sumitomo Bakelite Singapore obtain ISO 14001 certification | Kyoto Protocol adopted by the Third Conference of the Parties of the United Nations Framework Convention on Climate Change (COP3) |
| 1998 | First Environmental Activities Report issued | |
| 1999 | All Sumitomo Bakelite plants obtain ISO14001 certification | Law Concerning Reporting, etc. of Releases to the Environment of Specific Chemical Substances and Promoting Improvements in Their Management enacted Law Concerning Special Measures against Dioxins enacted |
| 2000 | Environmental accounting implemented | Basic Law for Establishing the Recycling-Based Society enacted |
| 2001 | Environmental Report issued (independent reviews conducted) | Law Concerning Special Measures against PCB Waste enacted |
| 2002 | Scope of Environmental Report expanded to include subsidiaries and affiliates in Japan Tokyo Kakohin receives an award for promoting a "3R" policy of reduce, reuse, and recycle Risk Management Committee established | Soil Contamination Countermeasures Law enacted Japan adopts COP3 Kyoto Protocol World Summit on Sustainable Development adopts Johannesburg Declaration on Sustainable Development |
| 2003 | Yamaroku Kasei Industry certified as the Company's first zero waste emissions plant Compliance Committee established | Building Code revised to resolve "sick building" syndrome |
| 2004 | Shizuoka Plant commences operations of a cogeneration system | Air Pollution Prevention Law revised to reduce volatile organic compound (VOC) emissions |
| 2005 | Title of annual Environmental Report changed to Environmental & Social Report to reflect broader coverage of social initiatives Sumitomo Bakelite (Taiwan) recognized as the Sumitomo Bakelite Group's first overseas zero emissions production business site | Kyoto Protocol goes into effect Ordinance on Prevention of Health Impairment due to Asbestos |
| 2007 | | The new EU Regulation for Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) comes into force |
| 2008 | Thirty of the business sites of the Sumitomo Bakelite Group in Japan and overseas obtained ISO14001 certification (as of July) Start of soil and groundwater pollution remediation measures at a site owned by Sano Plastic following the dismantling of a factory building there (February) The company signs Responsible Care Global Charter (November) Start of mechanical equipment risk assessment | G8 Hokkaido Toyako Summit |
| 2009 | Inauguration of multilingual Material Safety Data Sheet (MSDS) system Begins participating as a partner in the Declaration of Biodiversity of the Japan Business Federation (Nippon Keidanren) | Revised Act on the Rational Use of Energy takes effect The 15th Conference of the Parties (COP15) held with the United Nations Climate Change Conference |
| 2010 | Establishment of the Environmental Impact Reduction Committee The Sumitomo Bakelite Group begins leakage risk assessments at its business sites in Japan and overseas | The 10th Conference of the Parties (COP10) to the Convention on Biological Diversity |
| 2011 | Presentation to Tochigi Prefectural Government of the report on the remediation construction work conducted at the Sano Plastic site (July) Standards for preparation of the Environmental & Social Report changed to conform with the GRI guidelines | The 17th Conference of Parties (COP17) to the United Nations Framework Convention on Climate Change The Great East Japan Earthquake |
| 2012 | The biotope project starts at the Shizuoka Plant Work to excavate and remove contaminated soil and to purify contaminated groundwater in the premises of the Totsuka Office after its closure Zero emissions achieved at all domestic plants Start of chemical materials risk assessment | The 18th Conference of Parties (COP18) to the United Nations Framework Convention on Climate Change and the 8th Conference of the Parties serving as the Meeting of the Parties to the Kyoto Protocol (CMP8) Following the accident at the Fukushima Daiichi Nuclear Power Plant of Tokyo Electric Power Company caused by the Great East Japan Earthquake, operation of all 54 commercial nuclear reactors in Japan suspended. Of the 54, only two at the Oi Nuclear Power Plant of Kansai Electric Power Company resumed operation |
| 2013 | Completion of decontamination at the former Totsuka Plant reported to Yokohama City | The 19th Conference of Parties (COP19) to the United Nations Framework Convention on Climate Change and the 9th Conference of the Parties serving as the Meeting of the Parties to the Kyoto Protocol (CMP9) |
| 2014 | The Company signs the revised Responsible Care Global Charter Environmental rating by the Development Bank of Japan (DBJ environmental rating): Gained A Compilation of certain Scope 3 data starts at business sites in Japan Start of risk assessment for fire by explosion | Revision to the Responsible Care Global Charter (6th element) Revision to the Industrial Safety and Health Act starts requiring businesses to perform risk assessments of chemical substances |
| 2015 | Revised the Company's Environment and Safety management guidelines, and established a new Responsible Care Activity Guideline in accordance to the Responsible Care Global Charter revised in 2014. | ISO 14001 Revised Implementation of the amended Law Concerning the Discharge and Control of Fluorocarbons Revision to the Water Pollution Control Act (revised wastewater standards) Revision to the Soil Contamination Countermeasures Act (amended specified toxic substances) |

Glossary for the CSR Report 2016

■ BOD (pages 68 to 76)

BOD is the acronym for Biochemical Oxygen Demand, which is a measure used in water quality analysis. This measure indicates the required oxygen level for microorganisms to oxidize and decompose organic matters in water in a given amount of time.

■ COD (pages 36, 39, and 68 to 76)

Chemical oxygen demand (COD) is a measure used in water quality analysis, indicating the amount of oxygen consumed by potassium permanganate to oxidize organic compounds in water.

■ CS (pages 45-47)

Acronym for customer satisfaction.

■ EICC Code of Conduct (pages 25 an 34)

The Electronic Industry Citizenship Coalition (EICC) Code of Conduct establishes standards to ensure that working conditions in the electronics industry supply chain are safe, that workers are treated with respect and dignity, and that business operations are environmentally responsible and conducted ethically.

■ GHS (page 44)

Acronym for the Globally Harmonized System of Classification and Labeling of Chemicals.

■ GRI (pages 2 and 80 to 81)

Acronym for Global Reporting Initiative, an international NGO. The organization publishes the GRI Sustainability Reporting Guideline.

■ ISO 26000 (page 8)

International standard developed in October 2010 to help organizations address social responsibility issues. This is the first international standard created through a multi-stakeholder process, which involved experts representing a multitude of sectors in the deliberation.

■ MFCA (page 37)

Acronym for Material Flow Cost Accounting, an environmental management and accounting tool for companies to improve cost efficiency and reduce environmental impact at the same time. Our Group utilizes this method as an analysis tool.

■ MSDgen (page 44)

A multilingual SDS publishing system introduced in 2008.

■ NOx (pages 36, 39 and 68 to 76)

Nitrogen Oxide

■ Pollutant Release and Transfer Register (PRTR) system (page 77)

Japan's PRTR Law requires companies using harmful chemical substances to gather data on the amount of harmful chemical substances released into the environment and other data as a means of promoting autonomous efforts by those companies to improve their management of such substances and preventing the pollution of the environment by such substances.

■ QOL (page 45)

Acronym for quality of life. A concept of satisfaction in all aspects of life, which includes not only material wealth possession but also emotional fulfillment, and self actualization.

■ SDS (pages 41 and 44)

Acronym for Safety Data Sheet. This sheet contains the safety information regarding chemical materials, and is attached with products on their delivery to other businesses.

■ SOx (pages 36, 39, and 68 to 76)

Sulfur Oxide

■ Scope 3 (page 38)

Whereas Scope 1 concerns direct emissions due to combustion of fuel etc. and Scope 2 concerns indirect emissions from consumption of purchased electricity or heat, Scope 3 concerns other indirect emissions, both upstream and downstream, of the supply chain of the reporting entity. The international guidelines of the Greenhouse Gas (GHG) Protocol break down Scope 3 into 15 categories.

Calculation method: We calculated the amount of emissions in accordance with the Basic Guidelines on Accounting for Greenhouse Gas Emissions Throughout the Supply Chain Ver. 2.1 issued by the Ministry of the Environment and the Ministry of Economy, Trade and Industry of Japan, using the emission factors stated in the basic database IDEA Ver. 1.1 Carbon Footprint Communication Program developed jointly by the National Institute of Advanced Industrial Science and Technology and the Japan Environmental Management Association for Industry as well as the Emissions Intensity Database for Calculating Greenhouse Gas Emissions of Organizations through the Supply Chain.

■ Stakeholders (page 6, 8 and 28 to 29)

Persons and organizations concerned. People who have an interest in any decisions made or activities conducted by an organization.

■ Materiality (page 8)

In the context of CSR, "materiality" refers to significant items that need to be worked on. Materiality items are selected in terms of how they reflect significant effects that an organization has on the economy, environment, and society, and how they have actual impact on evaluations and decisions made by stakeholders.

■ Responsible Care (page 27)

Activity that assures environmental safety and health in all stages of a chemical material's existence from development to manufacturing, distribution, utilization, final consumption, disposal, and recycling; publishes process results; and promotes dialogue and communication with the public. (Japan Chemical Industry Association)

GRI Guidelines Comparison Table

This report was prepared in accordance with the core options of the G4 Sustainability Reporting Guidelines of the Global Reporting Initiative.

■ General criteria for disclosure items

| | Description | Page number | | | |
|-----------------------|--|-----------------|--|--|--|
| Strategy and | d Analysis | | | | |
| G4-1 | Provide a statement from the most senior decision-maker of the organization (such as CEO, chair, or equivalent senior position) about the relevance of sustainability | 4-7 | | | |
| | to the organization and the organization's strategy for addressing sustainability. | | | | |
| Organization | | 00 | | | |
| G4-3 G4-4 | Report the name of the organization. Report the primary brands, products, and services. | 28 10-13, 28 | | | |
| G4-4 G4-5 | | 28 | | | |
| | Report the location of the organization's headquarters. Report the number of countries where the organization operates, and names of countries where either the organization has significant operations or that are | | | | |
| G4-6 | specifically relevant to the sustainability topics covered in the report. | 29 | | | |
| G4-7 | Report the organization's nature of ownership and legal form. | 28 | | | |
| G4-8 | Report the markets served (including geographic breakdown, sectors served, and types of customers and beneficiaries). | 10-13, 28-29 | | | |
| G4-9 | Report the scale of the organization, including: Total number of employees Total number of operations Net sales (for private sector organizations) or net revenues (for public sector organizations) Total capitalization broken down in terms of debt and equity (for private sector organizations) Quantity of products or services provided | | | | |
| G4-10 | a. Report the total number of employees by employment contract and by gender. b. Report the total number of permanent employees by employment type and by gender. c. Report the total workforce by employees and supervised workers and by gender. d. Report the total workforce by region and by gender. e. Report whether a substantial portion of the organization's work is performed by workers who are legally recognized as self-employed, or by individuals other than employees or supervised workers, including employees and supervised employees of contractors. f. Report any significant variations in employment numbers (such as seasonal variations in employment in the tourism or agricultural industries). | | | | |
| G4-11 | Report the percentage of total employees covered by collective bargaining agreements. | 53 | | | |
| G4-12 | Describe the organization's supply chain. | 34 | | | |
| G4-13 | Report any significant changes during the reporting period regarding the organization's size, structure, ownership, or its supply chain: N/A | - | | | |
| G4-14 | Report whether and how the precautionary approach or principle is addressed by the organization. | 33,44 | | | |
| G4-15 G4-16 | List externally developed economic, environmental and social charters, principles, or other initiatives to which the organization subscribes or which it endorses. List memberships of associations (such as industry associations) and national or international advocacy organizations in which the organization: Holds a position on the governance body Participates in projects or committees | 7 77 | | | |
| | Provides substantive funding beyond routine membership dues Views membership as strategic | | | | |
| Identified IVI | aterial Aspects and Boundaries | | | | |
| G4-17 | a. List all entities included in the organization's consolidated financial statements or equivalent documents. b. Report whether any entity included in the organization's consolidated financial statements or equivalent documents is not covered by the report. | 3,82 | | | |
| G4-18 | a. Explain the process for defining the report content and the Aspect Boundaries. b. Explain how the organization has implemented the Reporting Principles for Defining Report Content. | 8 | | | |
| G4-19 | List all the material Aspects identified in the process for defining report content. | 81 | | | |
| G4-20 | For each material Aspect, report the Aspect Boundary within the organization, as follows: • Report whether the Aspect is material within the organization • If the Aspect is not material for all entities within the organization (as described in G4-17), select one of the following two approaches and report either: -The list of entities or groups of entities included in G4-17 for which the Aspect is not material or -The list of entities or groups of entities included in G4-17 for which the Aspects is material • Report any specific limitation regarding the Aspect Boundary within the organization | | | | |
| G4-21 | For each material Aspect, report the Aspect Boundary outside the organization, as follows: • Report whether the Aspect is material outside of the organization • If the Aspect is material outside of the organization, identify the entities, groups of entities or elements for which the Aspect is material. In addition, describe the geographical location where the Aspect is material for the entities identified • Report any specific limitation regarding the Aspect Boundary outside the organization | 81-82 | | | |
| G4-22 | Report the effect of any restatements of information provided in previous reports, and the reasons for such restatements. | 37,66 | | | |
| G4-23 | Report significant changes from previous reporting periods in the Scope and Aspect Boundaries. | 3 | | | |
| | Engagement | | | | |
| G4-24 | Provide a list of stakeholder groups engaged by the organization. | 28-29 | | | |
| G4-25 | Report the basis for identification and selection of stakeholders with whom to engage. Report the organization's approach to stakeholder engagement, including frequency of engagement by type and by stakeholder group, and indicate whether any of | 28-29 | | | |
| G4-26 | Report the organization's approach to stakeholder engagement, including frequency or engagement by type and by stakeholder group, and indicate whether any of the engagement was undertaken specifically as part of the report preparation process. Report key topics and concerns that have been raised through stakeholder engagement, and how the organization has responded to those key topics and concerns, | 28-29 | | | |
| G4-27 Report Profi | including through its reporting. Report the stakeholder groups that raised each of the key topics and concerns. | 9,14-16,18-24 | | | |
| G4-28 | Reporting period (such as fiscal or calendar year) for information provided. | 3 | | | |
| G4-29 | Date of most recent previous report (if any). | 3 | | | |
| G4-30 | Reporting cycle (such as annual, biennial). | 3 | | | |
| G4-31 | Provide the contact point for questions regarding the report or its contents. | Back cover | | | |
| G4-32 | a. Report the "in accordance" option the organization has chosen. b. Report the GRI Content Index for the chosen option. c. Report the reference to the External Assurance Report, if the report has been externally assured. GRI recommends the use of external assurance but it is not a requirement to be "in accordance" with the Guidelines. | | | | |
| G4-33 | a. Report the organization's policy and current practice with regard to seeking external assurance for the report. b. If not included in the assurance report accompanying the sustainability report, report the scope and basis of any external assurance provided. c. Report the relationship between the organization and the assurance providers. d. Report whether the highest governance body or senior executives are involved in seeking assurance for the organization's sustainability report. | | | | |
| Governance | | | | | |
| G4-34 | Report the governance structure of the organization, including committees of the highest governance body. Identify any committees responsible for decision-making on economic, environmental and social impacts. | 30 | | | |
| Ethics and Ir | ntegrity | | | | |
| G4-56 | a. Describe the organization's values, principles, standards and norms of behavior such as codes of conduct and codes of ethics. | 26-27 | | | |

^{*1} See the glossary on page 79.

■ Basis of matters disclosed using the specific criteria for disclosure items.

| Identified materiality items | Related G4 Aspects |
|------------------------------------|---|
| Mitigate environmental impacts | Materials/Water/Emissions/Effluents and Waste/Products and Services/Transport |
| Resource and energy conservation | Energy |
| Safety and security | Environment-Overall/Occupational Health and Safety |
| Chemical substances | Transport/Occupational Health and Safety |
| Product liability | Customer Health and Safety |
| Biodiversity | Biodiversity |
| Improving stakeholder satisfaction | Customer Health and Safety/Products and Services |
| Human resources development | Training and Education |
| Work-life balance | Diversity and Equal Opportunity |
| CSR procurement | Supplier Environmental Assessment/Supplier Assessment for Labor Practices/Supplier Human Rights Assessment/Supplier Assessment for Impacts on Society |
| Compliance | Environmental Grievance Mechanisms/Labor Practices Grievance Mechanisms/Human Rights Grievance Mechanisms/Grievance Mechanism for Impacts on Society/Compliance |

Note: The boundary confirmed within the materiality determination process under GRI-G4 as it relates to the Group's businesses appears below for each page.

■ Specific criteria for disclosure items

| Environment | Description | Pa | ge number | |
|---|--|-------|--------------|--|
| Materials | [Bounda | ary1 | Our group | |
| G4-DMA | Epoditor | ы у " | 35,36 | |
| G4-EN1 | Materials used by weight or volume | | 36 | |
| Energy | [Boundary | arv1 | | |
| G4-DMA | Esouria | | 5,37-38,67 | |
| G4-EN3 | Energy consumption within the organization | | 36,38 | |
| G4-EN4 | Energy consumption outside the organization | | 67 | |
| G4-EN5 | | | 38 | |
| | Energy intensity | | 35 | |
| G4-EN6 | Reduction of energy consumption | 7 | | |
| Water | [Bounda | ary] | Our group | |
| G4-DMA | | | 35,40 | |
| G4-EN8 | Total water withdrawal by source | - | 40 | |
| Biodiversity | [Bounds | ary] | Our group | |
| G4-DMA | | | 55 | |
| G4-EN11 | Operational sites of operation owned, leased, managed in, or adjacent to, protected areas and areas of biodiversity with high biodiversity value outside protected areas | | 55 | |
| G4-EN12 | Description of significant impacts of activities, products, and services on biodiversity in protected areas and areas of high biodiversity value outside protected areas | 55 | | |
| G4-EN13 | Habitats protected or restored | | 55 | |
| G4-EN14 | Total number of IUCN Red List species and national conservation list species with habitats in areas affected by operations, by level of extinction risk | | 55 | |
| Emissions | [Boundary] ● Our group ● | Busi | ness partner | |
| G4-DMA | | 3 | 5,37-39,67 | |
| G4-EN15 | Direct greenhouse gas (GHG) emissions (Scope 1) | | 36,38,66 | |
| G4-EN16 | Indirect greenhouse gas (GHG) emissions (Scope 2) | | 36,38,66 | |
| G4-EN17 | Other indirect greenhouse gas (GHG) emissions (Scope 3) | 38,67 | | |
| G4-EN18 | Greenhouse gas (GHG) emissions intensity | 38 | | |
| G4-EN19 | Reduction of greenhouse gas (GHG) emissions | 35 | | |
| G4-EN21 | NOx, SOx, and other significant air emissions | | 39 | |
| Effluents and \ | | | | |
| G4-DMA | | | 5,37,39-40 | |
| G4-EN22 | Total water discharge by quality and destination | | 36 | |
| G4-EN23 | Total weight of waste by type and disposal method | | | |
| G4-EN24 | Total number and volume of significant spills | | 39 | |
| Products and S | | an/1 | Our group | |
| G4-DMA | Services Leourida | ary] | | |
| G4-EN27 | Extent of impact mitigation of environmental impacts of products and services | | 35 22 | |
| Compliance | [Bounda | ary] | Our group | |
| G4-DMA | | | 31,35 | |
| G4-EN29 | Monetary value of significant fines and total number of non- monetary sanctions for non-compliance with environmental laws and regulations | | 32 | |
| Transport | [Boundary] ● Our group ● | Busi | ness partner | |
| G4-DMA | | | 35,38 | |
| G4-EN30 Significant environmental impacts of transporting products and other goods and materials for the organization's operations, and transporting members of the workforce | | | 38,67 | |
| Environment-Overall [Bounda | | | Our group | |
| G4-DMA | | | 35,38 | |
| G4-EN31 | Total environmental protection expenditures and investments by type | | 36 | |

| | Description | Pa | ge number | | |
|----------------|---|--------|----------------------------|--|--|
| Supplier Envir | onmental Assessment [Boundary] • Our group | • Busi | ness partner | | |
| G4-DMA | | | 34 | | |
| G4-EN33 | Significant actual and potential negative environmental impacts in the supply chain and actions taken | | 34 | | |
| Environmenta | I Grievance Mechanisms [Bound | dary] | Our grou | | |
| G4-DMA | | | 32 | | |
| G4-EN34 | Number of grievances about environmental impacts filed, addressed, and resolved through formal grievance mechanisms | | 41 | | |
| | | | | | |
| | | | | | |
| Occupational | Health and Safety [Bound | dary] | Our grou | | |
| G4-DMA | | | 41 | | |
| G4-LA6 | Type of injury and rates of injury, occupational diseases, lost days, and absenteeism, and total number of work-related fatalities, by region and by gender | | 42-43 | | |
| G4-LA8 | Health and safety topics covered in formal agreements with trade unions | | 53 | | |
| Training and E | ducation [Bound | dary] | Our grou | | |
| G4-DMA | | | 50 | | |
| G4-LA9 | Average hours of training per year per employee by gender, and by employee category | | 50 | | |
| G4-LA10 | Programs for skills management and lifelong learning that support the continued employability of employees and assist them in managing career endings | | 48,50-52 | | |
| Diversity and | Equal Opportunity [Bound | dary] | Our grou | | |
| G4-DMA | | | 48-49 | | |
| G4-LA12 | Composition of governance bodies and breakdown of employees per employee category according to gender, age group, minority group membership, and other indicators of diversity | | 30,48 | | |
| Supplier Asse | ssment for Labor Practices [Boundary] • Our group | ■ Busi | ness partner | | |
| G4-DMA | | | 34 | | |
| G4-LA15 | Significant actual and potential negative impacts for labor practices in the supply chain and actions taken | | 34 | | |
| Labor Practice | es Grievance Mechanisms [Bound | dary] | Our grou | | |
| G4-DMA | | | 32 | | |
| G4-LA16 | Number of grievances about labor practices filed, addressed, and resolved through formal grievance mechanisms | | 32 | | |
| Human Rights | | | | | |
| Supplier Hum | an Rights Assessment [Boundary] • Our group | Busi | ness partne | | |
| G4-DMA | | | 34 | | |
| G4-HR11 | Significant actual and potential negative human rights impacts in the supply chain and actions taken | | 34 | | |
| Human Rights | s Grievance Mechanisms [Bound | dary] | Our grou | | |
| G4-DMA | | | 32 | | |
| G4-HR12 | Number of grievances about human rights impacts filed, addressed, and resolved through formal grievance mechanisms | | 32 | | |
| Society | | | | | |
| Compliance | [Bound | dary] | Our grou | | |
| G4-DMA | | | 31 | | |
| G4-SO8 | Monetary value of significant fines and total number of non-monetary sanctions for non-compliance with laws and regulations | | 32 | | |

| | Page number | | | | |
|----------------|--|----|--|--|--|
| Supplier Asses | Supplier Assessment for Impacts on Society [Boundary] • Our group • | | | | |
| G4-DMA | | 34 | | | |
| G4-SO10 | G4-SO10 Significant actual and potential negative impacts on society in the supply chain and actions taken | | | | |
| Grievance Med | Grievance Mechanisms for Impacts on Society [Boundary | | | | |
| G4-DMA | | 32 | | | |
| G4-SO11 | G4-SO11 Number of grievances about impacts on society filed, addressed, and resolved through formal grievance mechanisms | | | | |

■ Sumitomo Bakelite Group

Consolidated subsidiaries (39)

Akita Sumitomo Bakelite Co., Ltd.

Kyushu Sumitomo Bakelite Co., Ltd.

S.B. Techno Plastics Co., Ltd.

Hokkai Taiyo Plastic Co., Ltd.

Yamaroku Kasei Industry Co., Ltd.

S.B Research Co., Ltd.

S.B. Sheet Waterpoof Systems Co., Ltd.

Softec Systems Inc.

Thanxs Trading Co., Lt.

Sunbake Co., Ltd.

Seibu Jushi Co., Ld.

Tsutsunaka Kosan Co., Ltd.

Sumitomo Bakelite Singapore Pte. Ltd.

-Sumitomo Bakelite (Suzhou) Co., Ltd.

Sumitomo Bakelite (Thailand) Co., Ltd.

SumiDurez Singapore Pte. Ltd.

SNC Industrial Laminates Sdn. Bhd.

P.T. Indopherin Jaya

P.T .SBP Indonesia

Sumitomo Bakelite (Taiwan) Co., Ltd.

Sumitomo Bakelite (Shanghai) Co., Ltd.

Sumitomo Bakelite (Nantong) Co., Ltd.

Sumitomo Bakelite Hong Kong Co., Ltd.

Sumitomo Bakelite (Dongguaan) Co., Ltd.

Sumitomo Bakelite Macau Co., Ltd.

Sumitomo Bakelite North America Holding, Inc.

-Sumitomo Plastics America, Inc. -Durez Corporation

-Durez Canada Co., Ltd.

-Promerus LLC

-Sumitomo Bakelite North America, Inc.

-H.I.G. Vaupell Holdings, LLC

└ Vaupell Holdings, Inc.

- Vaupell Industrial Plastics, Inc.

- Vaupell Molding & Tooling, Inc.

- Russell Plastics Technology Company, Inc.

N.V. Sumitomo Bakelite Europe S.A.

-Vyncolit N.V.

-Sumitomo Bakelite Europe (Barcelona), S.L.U.

| | Pa | Page number | | |
|------------------------|--|-------------|-----------------------------|--|
| Product Responsibility | | | | |
| Customer Hea | ustomer Health and Safety [Bound | | | |
| G4-DMA | | | 45 | |
| G4-PR1 | Percentage of significant product and service categories for which health and safety impacts are assessed for improvement | ent 45-46 | | |
| Compliance | Compliance [Bound | | Our group | |
| G4-DMA | | | 31 | |
| G4-PR9 | Monetary value of significant fines for non-compliance with laws and regulations concerning the provision and use of products and services | | 32 | |

Non-consolidated companies (10) *1

S.B Information System Co., Ltd.

Sumibe Service Co., Ltd.

S.B. Recycle Co., Ltd.

SB Holland B.V.

Neopreg AG

Sumibe Korea Co., Ltd.

SBE India Pvt Ltd.

Taiwan Sumitomo Bakelite Co., Ltd.

Rong Feng (H.K.) Industries Limited

Rong Chang Sheng Plastics Mould (Shen Zhen) Co., Ltd.

Affiliated companies accounted for by the equity method (1) *2

P.T. Pamolite Adhesive Industry

Affiliated companies not accounted for by the equity method (5) *3

Otomo Chemical Co., Ltd.

Green Phenol Development Co., Ltd.

Akita EV Bus LLP

Changchun SB (Changshu) Co., Ltd.

Tsu-Kong Co., Ltd.

| | | Consolidated | Equity method | Non- consolidated | Other | Total |
|--|----------|--------------|---------------|----------------------|-------|-------|
| | Japan | 12 | 0 | 3 | 3 | 18 |
| | Overseas | 27 | 1 | 7 | 2 | 37 |
| | Total | 39 | 1 | 10 | 5 | 55 |

^{*1}Sano Plastics Co., Ltd. was liquidated on June 14, 2016.

^{*2} Nippon Denkai, Ltd. sold all of its shares on July 29, excluding it from the scope of the company as an equity-method affiliate

^{*3} Akita EV Bus LLP was established on April 1, 2016.



Independent Assurance Report

To the President and CEO of Sumitomo Bakelite Co., Ltd.

We were engaged by Sumitomo Bakelite Co., Ltd. (the "Company") to undertake a limited assurance engagement of the environmental and social performance indicators and environmental accounting indicators marked with \boxed{V} for the period from April 1, 2015 to March 31, 2016 (the "Indicators") included in its CSR Report 2016 (full online version) (the "Report") for the fiscal year ended March 31, 2016, the Company's self-declaration that the Report is prepared in accordance with the Global Reporting Initiative's G4 Sustainability Reporting Guidelines (the "G4 Guidelines") at a core level, and the completeness of material sustainability information in the Report.

The Company's Responsibility

The Company is responsible for the preparation of the Indicators in accordance with its own reporting criteria (the "Company's reporting criteria"), as described in the Report, which are derived, among others, from the G4 Guidelines and Environmental Reporting Guidelines of Japan's Ministry of the Environment, for self-declaring that the Report is prepared in accordance with the criteria stipulated in the G4 Guidelines, and for including the material sustainability information defined in the 'Sustainability Reporting Assurance and Registration Criteria' of the Japanese Association of Assurance Organizations for Sustainability Information ("J-SUS") in the Report.

Our Responsibility

Our responsibility is to express a limited assurance conclusion on the Indicators based on the procedures we have performed. We conducted our engagement in accordance with 'International Standard on Assurance Engagements (ISAE) 3000, Assurance Engagements other than Audits or Reviews of Historical Financial Information', 'ISAE 3410, Assurance Engagements on Greenhouse Gas Statements', issued by the International Auditing and Assurance Standards Board, and the 'Practical Guidelines for the Assurance of Sustainability Information' of J-SUS. The limited assurance engagement consisted of making inquiries, primarily of persons responsible for the preparation of information presented in the Report, and applying analytical and other procedures, and the procedures performed vary in nature from, and are less in extent than for, a reasonable assurance engagement. The level of assurance provided is thus not as high as that provided by a reasonable assurance engagement. Our assurance procedures included:

- Interviewing with the Company's responsible personnel to obtain an understanding of its policy for the preparation of the Report and reviewing the Company's reporting criteria.
- Inquiring about the design of the systems and methods used to collect and process the Indicators.
- Performing analytical reviews of the Indicators.
- Examining, on a test basis, evidence supporting the generation, aggregation and reporting of the Indicators in conformity with the Company's reporting criteria, and also recalculating the Indicators.
- Visiting to the Company's overseas and domestic factories selected on the basis of a risk analysis.
- Evaluating the Company's self-declaration that the Report is prepared in accordance with the G4 Guidelines at a core level against
 the criteria stipulated in the G4 Guidelines.
- Assessing whether or not all the material sustainability information defined by J-SUS is included in the Report.
- Evaluating the overall statement in which the Indicators are expressed.

Conclusion

Based on the procedures performed, as described above, nothing has come to our attention that causes us to believe that the Indicators in the Report are not prepared, in all material respects, in accordance with the Company's reporting criteria as described in the Report; the Company's self-declaration that the Report is prepared in accordance with the G4 Guidelines at a core level does not conform to the criteria stipulated in the G4 Guidelines; and all the material sustainability information defined by J-SUS is not included in the Report.

Our Independence and Quality Control

We have complied with the Code of Ethics for Professional Accountants issued by the International Ethics Standards Board for Accountants, which includes independence and other requirements founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality and professional behavior. In accordance with International Standard on Quality Control 1, we maintain a comprehensive system of quality control including documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

KPMG AZSA Sustamability Co., Ltd.

KPMG AZSA Sustainability Co., Ltd. Tokyo, Japan

October 19, 2016



This mark indicates that Sumitomo Bakelite has fulfilled the Labeling Standards for the Screening and Registration of Sustainability Reports published by the Japanese Association of Assurance Organizations (http://www.j-sus.or.jp) for Sustainability Information with regard to the sustainability information appearing in this report.



Audit of an overseas business site in progress (Sumitomo Bakelite [Nantong] Co., Ltd.)



Audit of a domestic business site in progress (Akita Sumitomo Bakelite)

SUMITOMO BAKELITE CO., LTD.

Tennoz Parkside Building 5-8 Higashi-Shinagawa 2-chome, Shinagawa-ku. Tokyo 140-0002

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About the Cover

llustrator: Satoko Mukumoto

"I decided to portray lively children playing together using Sumitomo Bakelite's corporate color of pea green as the main color tone. This illustration conveys the company's commitment to preserving nature and providing a better tomorrow to future generations."



UD Font: The easy-to-read font is based on the Universal Design (UD) concept.

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