

Examples of Lion's GFC* initiatives

* Global Framework on Chemicals (GFC) - for a planet free from harm of chemicals and waste

GFC		Examples of initiatives by LION Corporation and its domestic group companies
Strategic objectives	Target	
A: Legal frameworks, institutional mechanisms and capacities are in place to support and achieve the safe and sustainable management of chemicals throughout their life cycle.	A3 By 2030, companies implement measures identified to prevent or, where prevention is not feasible, minimize adverse effects from chemicals throughout their life cycle.	<ul style="list-style-type: none"> •Developing Environmentally Friendly Anionic Surfactant Manufacturing Technologies → https://www.lion.co.jp/en/rd/production/industrial/case01.php •Safety of Raw Materials and Ingredients → https://www.lion.co.jp/en/sustainability/consumer/quality/ •Establishment of the Chemical Substance Management Committee •Initiatives to Reduce or Eliminate Chemical Substances of Concern •Initiatives to reduce emissions of chemical substances that cause air pollution, including nitrogen oxides (NOX), sulfur oxides (SOX), particulate matter and VOCs •Wastewater management at each business site, including the conclusion of individual agreements with municipalities and the establishment of voluntary standards. •Implementation of labeling based on the GHS •Provision of GHS SDSs and Emergency Response Cards → https://www.lion.co.jp/en/sustainability/environment/chemical-substances/ •Reduction of plastic usage •Providing Easy-to-Recycle Products •Reduction of Waste Emitted into the Environment → https://www.lion.co.jp/en/sustainability/environment/resources/activity01.php
	A4 By 2030, stakeholders have effectively prevented all illegal trade and traffic of chemicals and waste.	<ul style="list-style-type: none"> •We do not export waste but properly dispose of it within the country. → https://www.lion.co.jp/en/sustainability/environment/resources/activity01.php
B: Comprehensive and sufficient knowledge, data and information are generated, available and accessible to all to enable informed decisions and actions.	B2 By 2030, stakeholders make available, to the extent possible, reliable information on chemicals in materials and products throughout the value chain.	<ul style="list-style-type: none"> •Disclosure of product ingredients : labeling on product packaging in compliance with laws and voluntary standards of industry associations → https://www.lion.co.jp/en/sustainability/consumer/quality-assurance/ •Provision of GHS SDSs •Operation of the Management System for Information on Chemical Substances → https://www.lion.co.jp/en/sustainability/environment/chemical-substances/
	B3 By 2035, stakeholders generate data on the production of chemicals, including the use of chemicals in materials and products, in addition to data on emissions and releases of chemicals and waste to the environment, making these data available and publicly accessible.	<ul style="list-style-type: none"> •Disclosure of CO2 emissions, greenhouse gas emissions, and energy consumption •Disclosure of the quantities of raw materials and container/packaging materials used •Disclosure of the Water Usage in Business Activities •Disclosure of the amount of waste generated •Disclosure of emissions of PRTR-designated substances •Disclosure of emissions of nitrogen oxides (NOX), sulfur oxides (SOX), particulate matter and VOCs → https://www.lion.co.jp/en/sustainability/management/data/environment.php
	B4 By 2035, stakeholders apply appropriate guidelines, best available practices and standardized tools for hazard and risk assessment and chemical and waste management.	<ul style="list-style-type: none"> •Participation in measurement of surfactant concentrations in river water areas conducted by the Japan Soap and Detergent Association → https://www.lion.co.jp/en/sustainability/env/biodiversity/activity01.php •Provision of GHS SDSs and Emergency Response Cards → https://www.lion.co.jp/en/sustainability/environment/chemical-substances/
	B5 By 2030, educational, training and public awareness programmes on chemical safety, sustainability, safer alternatives and the benefits of reducing chemicals and waste risks have been developed and implemented, taking into consideration a gender-responsive approach.	<ul style="list-style-type: none"> •Educational Support for Elementary, Junior High and High School Students •Participation in "Rico-Challe," Organized by the Cabinet Office •Experiment-Based Lessons for Elementary School Students → https://www.lion.co.jp/en/rd/sustainability/contribution/
	B7 By 2030, stakeholders generate, to the extent possible, and make available comprehensive and accessible monitoring and surveillance data and information on concentrations and potential exposure sources of chemicals in humans (disaggregated by sex, age, region, other demographic factors, and other relevant health determinants as feasible), other biota and environmental media.	<ul style="list-style-type: none"> •Participation in measurement of surfactant concentrations in river water areas conducted by the Japan Soap and Detergent Association → https://www.lion.co.jp/en/sustainability/env/biodiversity/activity01.php
C: Issues of concern are identified, prioritized and addressed.	C1 Processes and programmes of work including timelines are established, adopted and implemented for identified issues of concern.	<ul style="list-style-type: none"> •Establishment of the Chemical Substance Management Committee → https://www.lion.co.jp/en/sustainability/environment/chemical-substances/
D: Safer alternatives and innovative and sustainable solutions in product value chains are in place so that benefits to human health and the environment are maximized and risks are prevented or, where prevention is not feasible, minimized.	D1 By 2030, companies consistently invest in and achieve innovations towards advancing sustainable chemistry and resource efficiency throughout the life cycle of chemicals.	<ul style="list-style-type: none"> •Reduce Plastic Usage → https://www.lion.co.jp/en/sustainability/environment/resources/activity01.php •Development of Environmentally Friendly Packaging → https://www.lion.co.jp/en/rd/basic/container-utensil-design/case-fabric-softener-bottle/ •Development of Flexible Packages Separable into Single Material by Delamination → https://www.lion.co.jp/en/rd/basic/container-utensil-design/ •Development of Rinse-free washing technology → https://www.lion.co.jp/en/rd/basic/interface/case04.php •Cooperation with the Long-Range Research Initiative(LRI) Activities of the JCIA → https://www.lion.co.jp/en/rd/basic/safety/ •The Lion Award - Supporting Aquatic Environment Student Research → https://www.lion.co.jp/en/sustainability/environment/communication/academic-support/ •Participation in the "Roundtable on Sustainable Palm Oil (RSPO)" → https://www.lion.co.jp/en/sustainability/supply-chain/procurement/ •Establishment of the Daily Necessities Supply Chain Council → https://www.lion.co.jp/en/news/2024/4636 [Japanese]
	D4 By 2030, relevant stakeholders give priority to sustainable solutions and safer alternatives to harmful substances in products and mixtures, including in consumer products, in their research and innovation programmes.	<ul style="list-style-type: none"> •Safety of Raw Materials and Ingredients → https://www.lion.co.jp/en/sustainability/consumer/quality/ •Cooperation with the Long-Range Research Initiative(LRI) Activities of the Japan Chemical Industry Association → https://www.lion.co.jp/en/rd/basic/safety/
	D7 By 2030, stakeholders implement measures and strive to ensure effective occupational health and safety practices as well as environmental protection measures in all relevant sectors and throughout the supply chain.	<ul style="list-style-type: none"> •Provision of GHS SDSs and Emergency Response Cards •Chemical Substance Management in Manufacturing Operations → https://www.lion.co.jp/en/sustainability/environment/chemical-substances/
E: Enhanced implementation occurs through increased and effective resource mobilization, partnerships, cooperation, capacity-building, and integration into all relevant decision-making processes.	E2 By 2030, partnerships and networks among sectors and stakeholders are strengthened to achieve the sound management of chemicals and waste.	<ul style="list-style-type: none"> •Participation in the Japan Chemical Industry Association's Responsible Care (RC) activities and implementation of community dialogue → https://www.lion.co.jp/en/sustainability/environment/chemical-substances/ •Support for Environmental Organizations → https://www.lion.co.jp/ja/sustainability/environment/initiative/
	E6 By 2030, stakeholders identify and strengthen, as appropriate, synergies and linkages between chemicals and waste management and other key environmental, health and labour policies, such as those related to climate change solutions, biodiversity conservation, human rights protection, universal health coverage or primary health care.	<ul style="list-style-type: none"> •Realizing a Decarbonized Society → https://www.lion.co.jp/en/sustainability/environment/climate/ •Biodiversity Conservation Activities → https://www.lion.co.jp/en/sustainability/environment/biodiversity/activity01.php

* The linkage to GFC targets are determined at our own discretion.