



Control and reduction of substances of concern

Control of chemical substances contained in products

To strengthen the management of chemical substances in our products, we control legally regulated substances in each country, substances that are self-regulated by automakers, and substances covered by our own company regulations. We monitor the trends in European REACH^{*2} regulations and the EU RoHS Directive^{*3} and have a system in place to respond rapidly when these regulations are revised. To respond

to requests from automakers in each country for information on chemical substances in products, we have devised mechanisms and conducted systems for global collective management of chemical substances that we are currently using in Japan, China, Thailand and Vietnam. We will be steadily expanding this system to places where it is not yet in use.

*2 Registration, Evaluation, Authorization and Restriction of Chemicals

*3 Restrictions on the use of specific hazardous substances contained in electrical and electronic equipment

Chemical substance regulations in each region

(Year)	~2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Europe	EU End-of-Life Vehicle (ELV) Directive ^{*4}			Review of ELV, exclusion rules		Review of ELV, exclusion rules		Review of ELV, exclusion rules		
	EU Restriction of Hazardous Substances (RoHS) Directive revision					Review of RoHS, exclusion rules				
	EU REACH regulations	4 substances added to 11 th SVHC list	5 substances added to 14 th SVHC list	9 substances added to 17 th SVHC list	6 substances added to 20 th SVHC list	4 substances added to 23 rd SVHC list				
	151 substances SVHC ^{*5}	6 substances added to 12 th SVHC list	1 substance added to 15 th SVHC list	7 substances added to 18 th SVHC list	4 substances added to 21 st SVHC list	2 substances added to 24 th SVHC list				
North America	22 substances require authorization	4 th list 9 substances require authorization	2 substances added to 13 th SVHC list	4 substances added to 16 th SVHC list	5 th list 12 substances require authorization	10 substances added to 19 th SVHC list	4 substances added to 22 nd SVHC list	8 substances added to 25 th SVHC list		
	EU CLP Regulations Classification, labeling notification									
	USA EPA Action Plans			◆TSCA revision						
	China / Provisions on Environmental Administration of New Chemical Substances		◆China / Compulsory Product Certification regulations			◇China: Guidelines for Air Quality Assessment in Cars				
Asia	China / Hazardous Chemical Safety Control Ordinance									
	South Korea / Revised ELV and RoHS regulations			◆China / ELV management requirement						
	South Korea / REACH			◆China / Revised RoHS						
	Japan / Chemical Substances Control Law: Amendment	◆Taiwan / Toxic Chemical Substance Control Act		◆Japan: Mercury Act						

*4 Restrictions on the use of substances of concern contained in automobile parts and materials

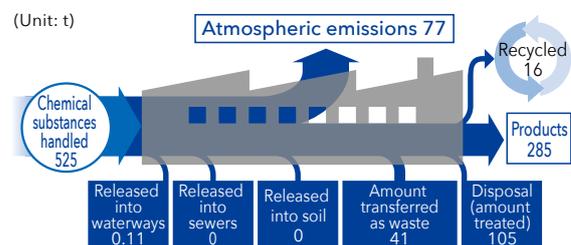
*5 Substances of high concern

Reduced use of substances of concern

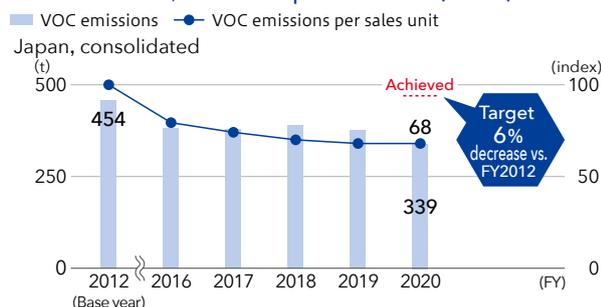
In production processes, we are switching to water-based paint and release agents, making painting lines more compact, improving coating efficiency, and making other efforts to reduce Pollutant Release and Transfer Register (PRTR) substances and volatile organic compounds (VOCs).

Through on-site visits, we also share information on cases in which VOCs were successfully decreased to promote reduction activities.

Volumes and flow of emitted PRTR substances



VOC emissions, emissions per sales unit (index)^{*6}



*6 Emissions per sales unit (index) is a figure obtained taking FY2012 as 100