

Rigaku Green Procurement Guideline

VER.1
AS OF NOVEMBER 1, 2023
RIGAKU HOLDINGS CORPORATION

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1. Introduction

The Rigaku group of companies is aware that global environmental conservation is an important topic for humanity's survival and for its ongoing prosperity as a company, and seeks to conduct business responsibly in the area of environmental management.

We will continue to conduct environmental conservation and improvement activities and actively and consistently seek the reduction of our environmental footprint. We comply with laws, regulations, agreements, company rules, etc. related to environment; and we work on environment-friendly design from the planning stage of products, including energy saving, resource saving, reducing hazardous chemicals, etc. to provide customers with environment-friendly products and service, and to minimize the environmental impact in procurement, production, transportation, usage, recycling, and disposal.

As for components and materials, we the Rigaku group of companies strives to be environment-friendly throughout the supply chain. Therefore we conduct business giving preference to companies who are working on environmental conservation proactively, and should procure components and materials in consideration of not only quality or price but also impact on environment.

With this Rigaku Green Procurement Guideline we request that our business partners establish systems for environmental activities which promote environmental conservation activities and ensure the effective management of chemicals and the reduction of the environmental load of substances in our/your products.

Rigaku Group Management Committee of Chemicals in Products

2. Goals

These “Rigaku Green Procurement Guidelines” are intended to identify prohibited/restricted chemicals in materials or contract manufacturing used for our products, to establish a procedure to investigate/manage chemicals in procured items or contract manufacturing, seek to comply with each country’s laws and regulations related to product environment and reduced environmental load, and contribute to human health and global environmental conservation with our business partners.

3. Scope

This is applied to everything used for products which we design and produce, including finished products, semi-finished products, materials, raw materials, packaging material for our product shipment, and anything incorporated into our products and shipped which is outsourced to our business partners and sold with our brand.

However, this is not applied to the followings:

- Parts or materials which we supply (we investigate them) or in case we instruct with drawings.
- Anything not incorporated into our products directly, such as jigs, tools, etc. However, if the devices, facilities, jigs, and tools used in our production process, etc. contact with our products and materials directly, and materials of the contact zone can adhere, transfer, and remain in our products, they are in scope.

4. The Rigaku group of companies requests our business partners to:

4-1) Environmental management system

Conduct activities for environmental conservation and legal and regulatory compliance, and recommend to obtain third-party certification of an environmental management system, such as ISO14001, KES, Eco-Action 21, etc.

4-2) Management of chemical substances contained in products

Comply with laws and regulations of export destination in the world, including RoHS Directive, REACH Regulation, POPs Regulation, TSCA, etc.

The following methods are recommended to comply with this requirement:

- ① Establish a quality assurance system for chemical substances contained in products
 - Establish and promote appropriately the system to control/maintain chemical substances contained in products
 - Carry out monitoring to check that the products do not contain prohibited substances.
 - Inform secondary and further suppliers of these Green Procurement Standards and establish a system to check that the materials do not use prohibited substances and to understand the component information.

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- Set up a process to ensure that use of materials by mistake, mixing or contamination do not occur during manufacturing.

Reference: latest JAMP guidelines URL: <https://chemsherpa.net/docs/guidelines>

② Cooperate with survey of chemical substances contained in products

Based on laws and regulations related to chemicals, we request you to answer the survey of chemical substances contained in products about items procured or outsourced manufacturing items. The survey format or tool might be different depending on the items procured. Please follow the instruction from your counterpart at Rigaku.

The following are typical survey tools used;

- chemSHERPA (led by Ministry of Economy, Trade and Industry)

Reference: JAMP: URL: <https://chemsherpa.net/tool>

- Certification of non-use of specified chemicals

We specify certain prohibited substances for our procurement process based on our assessment of the risk. We may update the list of applicable chemicals based on developments in each country's laws and regulations.

- Supply related materials such as composition table, SDS, MIL sheet, etc.(when requested)
- Analytical data or other surveys (when requested)

*We might request data or documents not included in the standards based on regulations or a customer's request. We will contact you separately about the type of document, the deadline, where to submit, etc.

Due to changes in laws and regulations, etc., we might request you to resubmit certifications, survey responses, etc. Please note that we might submit materials received from you to our customers.

- * When adopting new products, we will assume that the materials required above are available (to be requested separately)
- * RoHS Directive allows for some exemptions, while others have a deadline. Please propose alternative products in time to meet the deadline.

③ Change management

If there is a possibility that the composition of the part purchased will be changed, whether the original composition was stipulated by Rigaku or not, please contact your counterpart at Rigaku immediately.

④ Nonconforming products

In case nonconformity to our standards occurs, such as prohibited substances being found in procured items, or containing controlled substances above the threshold, etc., please contact our purchasing department immediately. Also, we will then ask our suppliers to propose alternative products.

Appendix 1. List of prohibited/controlled substances in Rigaku

We define prohibited/controlled substances in Rigaku group in Appendix 1 (List of Rigaku prohibited/controlled substances, available from our web site) depending on the type of materials or their usage. We should also comply with each country's laws and regulations.

Prohibited substances specified in the list of prohibited/controlled substances should not be used or added to parts even when there is not specific instruction in the drawings. If a threshold is set, then the substance should not be contained above that threshold. This list will be updated based on changes in global laws and regulations, etc. Please find the latest list on our web site.

5. Terms Definition

Prohibited substances	Substances already prohibited from use in products, or with an upper limit of concentration, or with a time limit beyond which their use will be prohibited.
Controlled substances	We are not restricted from using controlled substances intentionally, but should nonetheless collect the data about them to see if they are used or not, and their concentration. Among applicable controlled substances, "intentional use" or "known content" should be monitored.
RoHS Directive	<p>Stands for "Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (2011/65/EU)"</p> <p>This is an EU regulations that prohibits the sale of electrical and electronic equipment containing lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB), and polybrominated diphenyl ethers (PBDE) above the threshold in the EU market since July 1st, 2006. DEHP (di(2-ethylhexyl) phthalate), BBP (butyl benzyl phthalate), DBP (Dibutyl phthalate), and DIBP (Diisobutyl Phthalate) were added to the restricted list on July 22nd, 2019. As of the end of 2022, 10 substances in total are controlled under RoHS.</p>
REACH Regulations	Stands for "Registration, Evaluation, Authorization and Restriction of Chemicals (1907/2006)." It's an EU regulation and the system to register, assess, approve, and restrict chemicals comprehensively entered into force on June 1 st , 2007. Manufactures and importers who place substances, preparations, and manufactured articles on the EU market must, under certain conditions, evaluate and register substances, register and notify substances and provide information about substances contained in the products. In particular, information about chemical substances in manufactured articles are required.
Content	Content means substances are contained in parts or materials which compose procured items as components or contents, or adhere to them, regardless of whether it's added intentionally or not.

Intentional addition	It means that substances are used intentionally to provide a certain character, appearance, or quality of the procured items.
Homogeneous material	Defined as materials that cannot be mechanically disjointed. Examples: lead plating. For printed circuit board, wiring materials, solder resist, plating, etc. are referred to as a different homogeneous material.
Manufactured articles	A particular shape, appearance or design imparted during manufacture that determines its end use function to a greater extent than its chemical composition. For example, metal plates, gears, integrated circuits, electrical products.
Chemicals	Chemical elements, and compounds of chemical elements in their natural state or after any production process.
JAMP	Stands for "Joint Article Management Promotion-consortium." The cross-industry consortium promotes the proper management of information about chemicals contained in manufactured articles through the creation and dissemination of information management platforms working across the supply chain.
chemSHERPA	Data management support tool led by Japan's Ministry of Economy, Trade and Industry to properly manage information about chemicals contained in products across the supply chain, from upstream companies to downstream companies. It enables the communication about component information based on an applicable substances list, and information about judgement of legal compliance per product area for manufactured articles.

[Revision history]

Ver.	Revised	Revised content	Details
1.0	11/1/2023	First version	

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