

(Appendix 1) “Green procurement standard” The original English document

RENESAS ELECTRONICS Green procurement standard

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1 . Purposes

In procurement of all materials, Renesas Electronics is promoting activities aimed at reducing the environmental burden. In this Statement, in order to manufacture and supply our products to our customers, we will establish basic concepts and standards concerning our company's "green procurement" for procurement items delivered from suppliers, and how to operate them. We aim to prevent problems caused by the inclusion of environmentally hazardous substances in procured items by our company and our customers through procurement activities based on this standard.

2 . Scope of application

This Statement applies to goods procured from our suppliers, used as components of products to be delivered to customers, and used for manufacturing and packaging of products.

That is, as exemplified in Table 1, procurement for constructing our products such as wafers, film forming materials, etc. in wafer process, lead frame, substrate, sealing resin, die bonding material, solder, wire etc. in assembly All items are eligible. These procurement items include electronic parts, production consignment, OEM products, etc. However, manufacturing equipment, jigs and tools (including trays, magazines etc. used only within our process), software, will be excluded. Also, for packaging materials, all parts used for shipping our products are eligible. When packing on packaging materials used by our suppliers when delivering to our customers, the packaging materials are also eligible.

Table 1. Examples of applicable / Not applicable

Classification	Materials for examples
Applicable	Wafer, metal for vapor deposition, target, resist, process gas, Other chemicals (acid, alkali, plating solution, flux etc.) Mold resin, frame, die bond material, wire, BGA board, printed circuit board, tape, Electronic components (semiconductors, capacitors, resistors, etc.) Shipping packaging materials etc.
Not applicable	Quartz member, general tool, tweezers, pump oil, Equipment related parts etc.

3 . Position of standards

This Standards establishes basic matters relating to our company's green procurement. Even for the threshold control substances shown in Table 2 of this standard, if intentional inclusion is prescribed in the purchase specification as product specifications, the content of the purchase specification document will be given priority.

In case you get lost in your judgment, please contact us.

4 . Definition

(1) Suppliers

An entrepreneur who supplies parts / materials, packaging materials, etc. to the Company, or is entrusted with production of part or all of the production process from the Company, and is ultimately responsible as a manufacturer as to the quality thereof

(2) Our company

This Statement collectively refers to companies that have production bases (factories) at Renesas group companies or manufacture products by outsourcing production, which is called our company.

(3) Environmental quality

To understand environmental impacts of procured products and chemical substances contained in products, environmental impacts of manufacturing and use of products as quality items.

(4) Chemical substance control classification

In order to tackle the reduction of the environmental burden, we deal with chemical substances into four categories, "Prohibited Substances", "Reduced Substances", "Controlled Substances" and "Composed Substances".

These are collectively referred to as chemical substance control classification.

① Prohibited substances

Substances that prohibit the inclusion in products and their use in manufacturing processes due to considerable environmental burden and safety concerns.

② Reduced Substances

Substances that promote reduction by establishing voluntary goals of product content, usage in manufacturing process, and releases to the environment for reducing environmental burden and safety measures.

③ Controlled substances

Materials that should be managed for the amount of use, inventory, discharge, and transfer taking environmental load into consideration.

④ Composed Substances

From the viewpoint of prevention of resource depletion, substances that need to grasp the handled amount for the purpose of promoting reuse and recycling.

(5) Packing material

Containers that come into contact with direct products such as trays, magazines, embossed carrier tapes, chip trays and the like, stoppers, cover tapes, reels, reel bands, chip tray covers and the like attached thereto, drying agents, humidity indicators, binding bands, moistureproof bags , Labels, interior boxes, cushioning materials, cardboards, etc.

All parts used for shipping our products.

(6) Homogeneous material

It is a material that can not be separated into materials of different composition in the mechanical method.

Homogeneous means that the entire object is of uniform composition, and mechanical separation means to separate by mechanical action such as removing, disconnecting, grinding, grinding, or stripping.

(7) RoHS

2011/65 / EU: Directive on the restriction of the use of certain Hazardous Substances in electrical equipment. EU Directive on restriction on the use of specified hazardous substances in electrical and electronic equipment.

(8) REACH

REACH (Registration, Evaluation, Authorization and Restriction of Chemicals) is a system for comprehensive registration, evaluation, approval and restriction of chemical substances in Europe. When highly concerned substances (SVHC) are contained in the molded article at concentrations exceeding 0.1% by weight, information is transmitted. Since SVHC is updated periodically, confirm the latest SVHC information at the following URL.

<http://echa.europa.eu/web/guest/candidate-list-table>

(9) Halogen-free products

It intentionally does not contain halogen compounds such as halogen type flame retardants in the members constituting the product.

Also, even if it is unintentionally contained, it shall conform to the definition of halogen free for each member.

Halogen-free controlled chemical substances shall be bromine-based compounds and chlorine-based compounds as flame retardant components. The object member is a mold resin, an organic substrate, a liquid resin, an organic die bonding material, does not intentionally contain a chlorine compound and a bromine compound, and the content of bromine (Br) and chlorine (Cl) is 900 ppm or less , And the total content of bromine (Br) and chlorine (Cl) is 1500 ppm or less. These definitions shall conform to the International Electrotechnical Commission: IEC 61249 standard and conform to customer requirements. Regarding antimony trioxide, it is not a halogen substance, but intentional inclusion in a member of halogen free specification is prohibited.

5 . Our requirements

The company's requirements for suppliers are shown below.

5.1. Implementation of chemical substance management

In order to ensure the management system of environmentally harmful substances, manage chemical substances for procurement items to be delivered, and observe the following regulations.

(1) Company's "Management of chemical substances list"

<https://www.renesas.com/jp/en/about/company/sustainability/supply-chain#green-procurement>

Do not contain the "Prohibited Substance" described in (Note that there is no intentional inclusion (0 ppm), unintentional inclusion is less than 1000 ppm).

Management of chemical substances list is periodically checked for the target chemical substances, control classifications, etc. and revised if necessary. In addition, we may urgently revise due to regulatory compliance or safety issues.

At the time of revision, we will notify you to the supplier but in case of emergency it may not be in time so please check the latest version from the above URL and use it.

(2) With respect to the chemical substances listed in Table 2, for each constituent unit (homogeneous material) of the measurement site (for example, each member capable of mechanical separation such as a frame base material and a plating layer in a lead frame) There should be no content above the Renesas threshold shown in Table 2.

(3) Other compliance with related laws and regulations at home and abroad.

Table 2. Threshold controlled substance and its regulation value

	Chemical substance name	Applications	Renesas threshold *3	Regulatory value	
				Allowable value	Corresponding regulation
1	cadmium And its compound *1	Except below.	100 ppm	100 ppm	RoHS directive, ELV directive
		Plastic (including rubber), coating material, ink	5 ppm		
		Solder	20 ppm		
		Packing material except below Plastic	100 ppm *2 5 ppm	100 ppm *2	Europe, US packaging material regulation
2	Hexavalent chromium compound *1	Except below.	1,000 ppm	1,000 ppm	RoHS directive, ELV directive
		Packing material	100 ppm *2	100 ppm *2	Europe, US packaging material regulation
3	Lead and its compounds *1	Except below	1,000 ppm	1,000 ppm	RoHS directive, ELV directive
		Packing material	100 ppm *2	100 ppm *2	Europe, US packaging material regulation
4	Mercury and its compounds *1	Except below	1,000 ppm	1,000 ppm	RoHS directive, ELV directive
		Packing material	100 ppm *2	100 ppm *2	Europe, US packaging material regulation
5	Polybrominated biphenyl (PBBs)	All applications	1,000 ppm	1,000 ppm	RoHS directive
6	Polybrominated biphenyls (PBDEs)	All applications	1,000 ppm	1,000 ppm	RoHS directive
7	Dibutyl phthalate (DBP)	All applications	1,000 ppm	1,000 ppm	RoHS directive
8	Di (2-ethylhexyl) phthalate (DEHP)	All applications	1,000 ppm	1,000 ppm	RoHS directive
9	Butyl benzyl phthalate (BBP)	All applications	1,000 ppm	1,000 ppm	RoHS directive
10	Diisobutyl phthalate (DIBP)	All applications	1,000 ppm	1,000 ppm	RoHS directive
11	Chlorine(Cl) *4 Bromine(Br)	Mold resin Organic substrate Liquid resin Organic die-bonding	Chlorine(Cl) less than 900ppm Bromine(Br) less than 900ppm And Chlorine(Cl)+ Bromine(Br)		

		material	less than 1500ppm		
12	Antimony trioxide *4	Mold resin Organic substrate Liquid resin Organic die-bonding material	Intentional inclusion is prohibited.		
13	SVHC controlled substances	All applications	Report when inclusion rate is above 0.1%.		EU REACH regulation

*1 : Metal contains its alloy

*2 : The content of 4 substances in packaging materials is less than 100 ppm

*3 : Excluded uses in the RoHS Directive are excluded

*4 : For halogen-free products only

5.2 Submission of product information

(1) The documents to be submitted

- ① Survey sheet of contained chemical substances
- ② Purchase unit information sheet
- ③ Environmentally hazardous substance analysis data
(chemical substances designated by us)

However, since analytical data is delivered based on high-purity purchase specifications such as wafers, resists, etching gas, film forming materials, etc., it is unnecessary for procured items guaranteed impurity concentration below our threshold I will do.

However, please submit if there is a demand for analysis data from our customers and we deem it necessary

The form of the report is not stipulated, but please fill in the following items.

- 1) Report No
- 2) Our request No
- 3) Report creation date
- 4) Reporting company name / department
- 5) Specimen name: data common name of purchased items acquired (example: mold resin etc.)
Sample type name: Our model number of our purchased goods acquired data (example RM 5678, LA 345 G etc.)
Target type name: All model numbers of our purchased products subject to the report (example RM 5678, RM 5679, ...)
Sample raw material maker: raw material manufacturer of data purchased by our company (packaging material only)
Sample raw material type name: raw material type name of our purchased product obtained data (packaging material only)
- 6) Analyst / Analyst Officer / Analytical Institution Name (Third-party organization to analyze)
- 7) Analysis method and analysis apparatus
- 8) Analysis flowchart
- 9) Photo
- 10) Analysis date

11) Analysis result

If the analysis result is N.D. (Not detectable), please indicate the lower limit of determination.

Chemical substances to be analyzed will be 10 substances (Cd, Cr 6 +, Pb, Hg, PBB, PBDE, DBP, DEHP, BBP, DIBP) listed in Table 2 which are subject to regulation under the RoHS Directive.

For halogen-free products, please also analyze (Br, Cl, Sb).

For packaging materials, we will analyze only Cd, Cr 6 +, Pb, Hg based on European and US packaging material regulations.

Table 3 shows a list of materials that must be submitted for each procured item.

Please prepare the materials after referring.

We will ask you to submit necessary materials each time from us.

If you have any questions, please contact us.

Table 3. Examples of materials to be submitted

	Product name	Contained chemical materials investigation sheet	Purchased unit information sheet	Environmental load material analysis data
Wafer process	Wafer	○	○	— Remarks4
	Chemical, gas	○	○	— Remarks4
	Application type film	○	○	— Remarks4
	Evaporation metal, target	○	○	○ Cd, Cr ⁶⁺ , Pb, Hg, PBB, PBDE, DBP, DEHP, BBP, DIBP
	Entrusted production • OEM products	○	○	○ Cd, Cr ⁶⁺ , Pb, Hg, PBB, PBDE, DBP, DEHP, BBP, DIBP
Assembly process	Sealing resin	○	○	○ Cd, Cr ⁶⁺ , Pb, Hg, PBB, PBDE, DBP, DEHP, BBP, DIBP Halogen free product (Br, Cl, Sb) Remarks6
	Die-bond material	○	○	○ Cd, Cr ⁶⁺ , Pb, Hg, (PBB, PBDE, DBP, DEHP, BBP, DIBP) Remarks1 Halogen free product (Br, Cl, Sb) Remarks6
	Leadframe	○	○	○ Cd, Cr ⁶⁺ , Pb, Hg, PBB, PBDE, DBP, DEHP, BBP, DIBP
	Wire	○	○	○ Cd, Cr ⁶⁺ , Pb, Hg, PBB, PBDE, DBP, DEHP, BBP, DIBP
	Solder ball	○	○	○ Cd, Cr ⁶⁺ , Pb, Hg, PBB, PBDE, DBP, DEHP, BBP, DIBP
	Motherboard	○	○	○ Cd, Cr ⁶⁺ , Pb, Hg, (PBB, PBDE, DBP, DEHP, BBP, DIBP) Remarks1 Halogen free product (Br, Cl, Sb) Remarks6
	TAB tape	○	○	○ Cd, Cr ⁶⁺ , Pb, Hg, PBB, PBDE, DBP, DEHP, BBP, DIBP
	Plating liquid, plating electrode	○	○	○ Cd, Cr ⁶⁺ , Pb, Hg
	Solder paste, flux	○	○	○ Cd, Cr ⁶⁺ , Pb, Hg
	Packaging material	○	○	△Remarks2, 4 Cd, Cr ⁶⁺ , Pb, Hg
	Electric part	○	○	○Remarks 3 Cd, Cr ⁶⁺ , Pb, Hg, (PBB, PBDE, DBP, DEHP, BBP, DIBP) Remarks1 Halogen free product (Br, Cl, Sb) Remarks6

Entrusted production, OEM products	○	○	○Remarks 5 Cd, Cr ⁶⁺ ,Pb,Hg,(PBB,PBDE,DBP,DEHP,BBP,DIBP) Remarks4 Halogen free product (Br, Cl, Sb) Remarks6
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○ : Submission Required △ : Necessity determination for each target member — : unnecessary

Remarks1: For substances in parentheses, analysis data should be submitted in the case of members containing resin.

Remarks2: Magazine · stopper · tray · emboss carrier tape · cover tape · chip · tray · chip tray cover · wafer case · reel · reel band · moistureproof bag (* 1) · desiccant · binding band · storage bag · air cap · urethane foam · Adhesive tape · Interlayer paper · Humidity indicator · Cardboard · Ink · Label · Ink ribbon shall be submitted with analysis data at the time of introduction and change.

(*1: Although it is not an individual packaging material, since it requires attention to handling, it is treated as individual packaging material.)

Remarks3: In the case of semiconductor products, obtain and submit data for each component.

Remarks4: Analytical data is unnecessary, or materials that are not required for renewal every year are judged to be necessary by the Company, and analysis data should be submitted if requested.

Remarks5: Obtain analytical data for each of the parts making up the product and the product terminal part. When packing with packaging material to be delivered to our customers, when we deliver to our company, we also need to obtain analysis data of the packaging materials.

Remarks6: In the case of halogen-free products, analysis data on substances in parentheses shall also be submitted.

(2) Method of filling out survey sheet of contained chemical substance

① As a general rule, please fill in the content rate so that the total of constituent chemical substances is 100% in mass percent 0.1% (1000 ppm). For substances not listed in the Controlled Chemical Substance List and substances that can not disclose substance names, "Other ... (** 9999)" "Substances that can not be disclosed in the above classification (980001)" "Substances other than the above classification (999999) Please fill in as. Also, if there is a range in the content of constituent substances, please enter the central value (in the case of 75 to 95%, write it as 85%). However, for materials of paper materials such as interior boxes and cardboard in packaging materials, please describe only the prohibited substances, reduced substances and controlled substances specified by the company among the contained chemical substances.

② Whether chemical substances are contained or not is judged according to the criteria shown in Table 4. If it is judged for each constituent unit and contains more than the reference value, judge that it contains the chemical substance and fill in the 'contained chemical substance survey sheet'.

Even if less than 0.1% of the chemical substances in the parts corresponding to the exceptions, please indicate their content.

The numerical values shown in Table 4 are the criteria for judging whether each chemical substance is required to be entered in "Survey Sheet Containing Chemical Substances". Please note that it differs from the Renesas threshold which is the criterion for inclusion in the procured items shown in Table 2

Table 4. Criteria for inclusion of chemical substances

Category	Prohibited substances	Reduced substances	Controlled substances	Composed substances
Intentional contain	No threshold	No threshold	No threshold	No threshold
Unintentional contain (Impurity level)	1,000ppm			10,000ppm (1%)
	Exception •For Cd of plastics (including packaging materials), 5 ppm •For Cd in solder, 20 ppm. •For Cd in packaging materials (excluding plastics), 50 ppm. •For other Cd, 50 ppm. •For Pb, Hg and Cr 6 + in packaging materials, 50 ppm. •For other Pb, Hg and Cr 6 +, 50 ppm. •For PBB (polybrominated biphenyls), 500 ppm.			

	<ul style="list-style-type: none"> •For PBDE (polybrominated diphenyl ethers), 50 ppm. •For DBP, DEHP, BBP, DIBP are 50ppm .
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- ③ Please fill in "Renasas Substance No.", "Name of managed chemical substance" and "Control classification" based on the list of managed chemical substances.
- ④ For descriptions of contents, please divide the object into partial constituent units and describe the mass (g or mg) and content (% or ppm) of each chemical substance for each constituent unit. For content rate, please fill in (significant mass 2) digits (mass of chemical substance) / (individual mass of partial constituent unit).
- ⑤ Delivery of materials with different compositions in delivery and final use conditions, such as thermosetting resins (sealing resin etc.) delivered in the uncured state and coating type filming materials delivered in the solvent diluted state Please list the composition at the time and the final use together.
- ⑥ The columns of containers, packing materials and accessories describe containers, packing materials, and accessories used when delivering the items stated in the parts column to us. Do not describe chemical substance name, content, content rate, please fill in only processing method after use. In case of collection, please circle ○ in the corresponding column of recovery after recovery (reuse, material recycling (Remarks 7), energy recycling (Remarks 8), disposal). However, for reuse less than 10 times or less than 1 year, please do not evaluate as reuse and fill in the ○ in the appropriate field of the action to be implemented finally.
 Remarks 7: After collecting used parts / containers etc., use them again as raw materials.
 Remarks 8: After collecting used parts / containers etc., incinerate them and use the incineration heat as energy.
- ⑦ For shipping containers and packaging materials to be used for shipment from our company, please divide them according to the partial constitutional units in the parts column and describe the content and content ratio of each chemical substance according to ④. In other words, if the packaging material can be divided into individual packaging, interior, exterior and partial construction, please fill in each constituent unit.
- ⑧ If the entry field is insufficient, copy and fill out the entry sheet. In that case, please fill out the page for each sheet.
- ⑨ Please submit answers in electronic form on paper or PDF format. Also, as a general rule please send the completed EXCEL sheet as an electronic file.

(3) How to enter purchase unit information sheet

Please fill out the following information about the target product of "Survey Sheet Containing Chemical Substances".

- ① Manufacturer name: Manufacturer name of target product.
- ② Surveyed item name: Item name (or part number) when we place an order.
- ③ Purchase specification number: The number of specifications for which the company has specified purchase specifications.
- ④ Purchase unit of product: Unit of purchase (order) quantity (box, piece, book, sheet, kg, m, m³ etc.)

- ⑤ Amount of purchase unit: Net amount (g, kg, m, m², m³, liter, etc) per purchase unit.
- ⑥ Mass of purchase unit: Net gram mass (g) for each purchase unit

Please fill in ⑤, ⑥ by referring to the example below

Example 1: In case of purchasing one box of one medicine of one medicine and four medicine one box

- Purchase unit of products: [Box]
- Quantity of 1 purchase unit: [4 liters]
- Mass of 1 purchase unit: [4,000 g] (when the specific gravity of chemical is 1)

Example 2: In case of purchasing a one litter medicine by bottle.

- Purchasing unit of product : [bottle]
- Amount per a purchasing unit : [1 litter]
- Quantity of a purchasing unit: [1,000g] (In case of medicine's specific gravity is 1.)

Example 3: In case of purchasing medicine in m³ unit by tanker truck.

- Purchasing unit of product : [m³]
- Purchasing unit of product in amount : [1m³]
- Purchasing unit of quantity : [1,000,000g] (In case of medicine's specific gravity is 1.)

Example 4: 20g is a weight for a sheet, eight parts can be taken from a sheet for semiconductor, in case of purchasing a semiconductor product per one.

- Purchasing unit of product : [piece]
- Amount of a purchasing unit : [2.5(20/8) g]
- Quantity of a purchasing unit : [2.5(20/8) g]

Example 5: In case of purchasing a tape of 100m and 2,000g by meter unit.

- Purchasing unit of product : [m]
- Amount of a purchasing unit: [1m]
- Quantity of a purchasing unit: [20(2,000/100) g]

(4) Acquisition of analysis data

Chemical substances for which analytical data is requested are based on substances whose content is regulated by laws and regulations represented by the RoHS directive.

More accurate quantitative measurement is possible for analysis data to be submitted to our company. Please measure with the method shown in Table 5 or a method guaranteeing measurement accuracy equal to or higher than that. In the analysis data, please describe the analysis method and equipment, the analysis flowchart, and the photograph.

In addition, please submit the data in both English and Japanese texts as much as possible.

Table 5. Example of analyzing method

Material name	Analyzing method
Cadmium (Cd) Lead (Pb)	Inductively coupled plasma emission spectroscopy (ICP-AES) Inductively coupled plasma mass spectrometry (ICP-MS) Atomic absorption spectrometry (AAS)
Mercury (Hg)	Heated vapor atomic absorption spectrometry (AAS) Reduction vaporization atomic absorption spectrometry (CV-AAS) Inductively coupled plasma emission spectroscopy (ICP-AES) Inductively coupled plasma mass spectrometry (ICP-MS)
Hexavalent chrome (Cr ⁶⁺)	Diphenylcarbazide absorption spectrophotometry Ion chromatography analysis method (IC)
PBB、PBDE、 DBP、DEHP、 BBP、DIBP	Gas chromatograph mass spectrometry (GC-MS)
Bromine (Br), Chlorine (Cl)	Ion chromatography analysis method (IC)
Antimony (Sb)	Inductively coupled plasma emission spectroscopy (ICP-AES)

Analysis data should be updated once a year, starting from the date of the analysis report for each procured item, and submit it at the request of our company. However, update data on packing materials such as interior boxes and desiccants, which are not considered directly in contact with our products, will be unnecessary.

5.3 Handling of product information

Information on product chemical substances contained (product information, analytical data, etc.) is basically not disclose supplier name and product name.

We may disclose to our customers as evidence of conformity to customer's standards, such as RoHS directive, domestic and foreign law regulations.

Please understand.

We will not disclose other information to non-group companies.

6 . Implementation of audit

In order to confirm the situation of environmental quality management of suppliers, the system of management of environmentally hazardous substances, and the operation situation, we conduct audits based on our checklist systematically. In conducting the audit, our company procurement department will ask you to respond in advance.

The main items of content to be confirmed are the following items.

6.1 Quality and environmental management system

We will confirm the establishment of measures for quality and environment at suppliers, a mechanism to guarantee the environmental quality of products, and a system for managing them.

As a proof that the management system has been established, we recommend obtaining standards (ISO 9001, ISO 14001, EMAS, KES, Eco Stage, Eco Action 21 etc) certified by a third party.

6.2. Management status of contained chemical substances

The status of management of chemical substances from procurement of materials at suppliers to manufacturing process and shipment of products and the procurement items to be delivered to our company from suppliers not to contain chemical substances prohibited by laws and regulations of our company We will confirm management details and verification method.

7. Other requests

In order to ensure the environmental quality of our procurement items, we ask suppliers to thoroughly control the following as well as the above.

7.1. Suppliers, subcontractor management

We also request management of suppliers' suppliers and subcontractors to satisfy the requirements for procurement items to be delivered to our company.

7.2. Change management

In the event that it becomes necessary for business partners to change parts, processes, etc., we will examine the effect of the change on the environmental quality of delivered products to our company and contact us as environmental quality matter when necessary, please specify criteria for making approval request and please do it.

7.3. Abnormality management

When there is a possibility of abnormality concerning environmental quality in procurement goods to be delivered to our company, please prepare a rule for promptly contacting us and notify the person concerned about it.

7.4. Education implementation

We ask all departments directly attached to procurement items to be delivered to our company education on our requirements regarding environmentally harmful substances etc.

【Contact Information】

If you have any questions regarding this standard, please contact below.

Renesas Electronics Corporation
Quality Strategic Planning Dept. Quality Assurance Div.

Environment Promotion Department
Procurement Division
E-mail: green.procure@renesas.com

Revision history

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3.0	2021.6.25	- Change public URL (5.1.(1)) - Deletion of confidential description (Cover page)