

Furukawa AS Green Procurement Guideline

(Substance restriction in products)

“This Furukawa AS Green Procurement Guideline – English version” is only reference which is translated from original version in Japanese. When any discrepancy between English version and Japanese version is found, indication in Japanese version as original one shall have higher priority for its effectiveness.

table of contents

0. Introduction

1. Purpose

2. Application

3. Definition of terms

4. Management regulation for substances of environmental concern

5. Requirements to suppliers

Revise history

Form1 : Confirmation of ST-32-01 Green Procurement Guidelines

Related standard (s)

QM-104 Purchased things Quality Assurance Manual

Furukawa AS Green Procurement Guideline

(Substance restriction in products)

0. Introduction

For procurement of production materials, etc., this guideline is based on Furukawa Electric Group Green Procurement Guidelines. In addition with the automotive parts business succession from Furukawa Electric Co., Ltd. in 2007, in succession to the Furukawa Electric " auto parts Green Procurement Guidelines", the Name was changed to " Furukawa AS Green Procurement Guidelines".

1. Purpose

This guideline shall specify requests to suppliers for full prohibition of substances of environmental concern among purchased items by Furukawa Automotive Systems Inc, (from now on indicated as FAS), or for comprehensive management to reduce and manage these substances.

2. Application

This guideline shall apply to all items which are called “purchased items” such as raw materials, parts, finished products, and packing materials which are used for final products of FAS as well as to labels, markers and auxiliary materials used in all manufacturing processes in FAS and subcontractors.

3. Definition of terms

Words used in this guideline shall be defined as follows besides used in “JIS14001(ISO14001) Environmental management system”

1) Substances of environmental concern

Substances having or possibly having harm for human lives/health, ecosystems and global environment, which shall be defined in this guideline.

2) Content investigation sheet

Substance information sheet for materials and parts which shall be standardized as JAMA/JAPIA data sheet .

3) JAMA / JAPIA Standard Material Datasheet (Hereinafter referred to JAMA sheet)...

Report format sheet of content investigation standardized by Japan Automobile Manufactures Association(JAMA) and Japan Auto Parts Industries Association (JAPIA). (Refer : <http://www.japia.or.jp/datasheet/>)

4) IMDS (International Material Data System)...

For research component of raw materials and components of the car, it is the system used worldwide as the automotive industry standard. (Refer : <http://www.mdssystem.com/>)

5) EU ELV directive: "DIRECTIVE 2000/53/EC OF THE EUROPERAN PARLIAMENT AND OF THE COUNCIL of 18 September 2000 on end-of life vehicles".

6) Definition of "Contained" "Concentration values"

We shall judge as "Contained", when any concentration value exceeds the tolerated maximum value. "Concentration values" shall be calculated as "weight of target substances of environmental concern" divided by "weight of homogeneous material" with unit of percent (%).

4. Management regulation for substances of environmental concern

4-1. Management classification of substances of environmental concern

Consider the levels provided in the requirements of the customer, regulations, etc.

1) Classification :Prohibited substances <P>

All purchased items which contain "P" substances exceeding each threshold shall be prohibited to be delivered.

Ones which contain "P" substances not exceeding each threshold shall be delivered with declaration and approval using content investigation sheet. (*1)

2) Classification :Declarable or Conditionally prohibited substances <D/P>

Purchased items which contain EU ELV 4 substances in Table-2 shall be prohibited to be delivered except cases defined in ANNEX II. Also ones which contain substances with prohibited condition shall be prohibited to be delivered.

Ones which contain substances without prohibited condition or with it but not exceeding each threshold shall be delivered with declaration and approval using content investigation sheet. (*1)

3) Classification :Declarable substances <D>

Purchased items which contain "D" substances shall be delivered with declaration and approval using content investigation sheet.

(*1) Threshold value that is et and may be present as an impurity must be declared.

4-2. Management regulation for substances of environmental concern

Substance, CAS No, classification, threshold and management condition shall be based on both Attached Table-1; the latest Global Automotive Declarable Substance List (GADSL) (Refer : <http://www.gadsl.org/>), issued by Global Automotive Stakeholder Group (GASG).

Please be noticed that some other latest environmental requirements such as customer specified requirements on purchasing specification and/or drawings, etc. shall be also followed as well as new legal regulation.

Table-1 Classification of substances of environmental concern

Substance	CAS-No.	Classi- fication	Threshold 0.1% if not stated otherwise	Reason code	Source (Legal requirements regulations)
Substances on list GADSL disclosed by GASG	Refer GADSL (http://www.gadsl.org/)				

Lists the special management substance of Furukawa AS in <Table -2>.

As a general rule it shall not contain more than the threshold of these substances.

- 1) For the substances under restriction by EU ELV directive (Hereinafter referred to the 4 SOCs), prohibit the delivery of including purchasing product, except for the applications that are excluded in (ANNEX II) exemption list of the latest EU ELV Directive.
- 2) For the threshold of chemicals which have plural criteria including in <table-1>, the strictest one shall be applied for it.

Table -2 Special controlled substances of Furukawa AS

	Substance	Threshold (mass %)	notes
The 4 SOCs (the substances under restriction by EU ELV directive)	(1) Cadmium (Cd) and its compounds	0.01	except for the applications that are excluded in (ANNEX II) exemption list of the latest EU ELV Directive
	(2) Lead (Pb) and its compounds	0.1	
	(3) Mercury(Hg) and its compounds	0.1	
	(4) Chromium(VI) (Cr6 ⁺) and its compounds	0.1	
Bromine flame retardant, etc.	(5) Polybrominated biphenyls (PBB)	0.1	
	(6) Polybrominated diphenyl ethers (PBDE)	0.1	
	(7) Decabromodiphenyl ether (DBDE)	0.1	
	(8) Hexabromo-cyclododecane (HBCD)	0.1	
PFOS	(9) Perfluorooctane sulfonates (PFOS), all members	0.1	
Asbestos	(10) Asbestos	0.1	
Phthalate plasticizers	(11) Di 2-ethylhexyl phthalate (DEHP)	0.1	
	(12) Benzyl butyl phthalate (BBP)	0.1	
	(13) Di-n-butyl phthalate (DBP)	0.1	
	(14) Di isobutyl phthalate (DIBP)	0.1	

5. Requirements to suppliers

- 1) Compliance for all legislations and reducing / managing substances with environmental impact shall be achieved.
- 2) For establishing management system for no substances with environmental impact, please comply with this guideline and submit documents as follows.
 - ① 「Confirmation of Green Procurement Guidelines」
 - ② As our request, please report advance of establishment of environment management system. In this case please submit "Management System Check Sheet for Substances with environmental impact", which would be given to you after filling it with self-audit result.
- 3) Submitting information of materials and substances with environmental impact
 - ① Basically please submit content-investigation sheet in format of JAMA sheet. In case of report with IMDS system, please let us know about it for separate discussion about how to manage it.
 - ② Please disclose all chemicals contained in materials/parts for final products. It shall be in ways of actual declaration or with Joker/Wild cards.
 - ③ As revision of GADSL, it shall be confirmed if any chemicals handled with joker/wild card or non-disclosed ones would be changed to ones for application or restriction. When it happens, please inform about it to our company ASAP at least within 2 months from the GADSL revision date. Also please submit revised IMDS or JAMA sheet within 6 months from the GADSL revision date.
 - ④ In case of having restricted substance exceeding its threshold or under restricted condition, please inform us about it and take corrective action immediately.
 - ⑤ About items (1) to (6) for Furukawa AS special controlled substances, evidences (i.e. content analysis result, non-content certificate, etc) shall be preserved and submitted as our request.
 - ⑥ About item (10) for Furukawa AS special controlled substances, all products which could contain it shall be controlled as specially controlled parts and informed to us about it. Also your suppliers shall be surely controlled for it as supply-chain.
 - ⑦ In case of having change or revise about submitted information, please inform it to requester immediately.
 - ⑧ Additionally please let us ask you to give us your information about revised legislation

or customer specified requirement as necessary.

List of documents to be submitted based on green procurement guideline.

	Initial trade plan~ start it	As 1st product delivery	As each change	As GADSL revise	As Green procurement guideline revise	As our request
Confirmation of green procurement guideline	○	—	(As head/PIC change	—	○	○
No substance w/environmental impact management system check sheet	—	—	—	—	—	○
Content investigation sheet JAMA/IMDS	—	○	○	Re-submit as having change, after check	Re-submit as having change, after check	○
Evidences ,e.g. analysis result for items (1) to (6) of Special controlled substances	Preserve and submit as our request.					
Other, documents	Information could be required as legislation/customer specified requirement change.					

As regulated above, please submit each item even though no-request.

Revise history (NEW control number: ST-32-01-00)

No.	Revised date	Revised content
Initial	25th, Dec. 2015	Revised by changing the control number

Revise history (OLD control number: QR-220-001)

No.	Revised date	Revised content
Initial	1st, Nov. 2004	Newly issued
ver. 2	20th, Dec. 2004	Added description about intentional or unintentional content in “6. Criteria for concentration values”.
ver. 3	1st, Oct. 2007	<ol style="list-style-type: none"> 1) Changed title / document number depending on company name changed. 2) Added revise history 3) Added “Not controlled” in “Table-1. Management Categories”. 4) Added “GADSL” as a guideline of automotive industry in “4-2. Management regulation for substances with environmental impact” 5) Clearly indicated “Furukawa Electric Green Purchasing Guideline” as the regulation of Furukawa Electric Co., Ltd. 6) Clearly indicated about concentration value, removed description about intentional or unintentional content in “6. Criteria for concentration values”
ver 4	11th, Jun. 2010	<ol style="list-style-type: none"> 1) “Chemical substances sample list” of ours” is changed to “the attached table of “Chemical substances sample list” ” in “4. Management regulation for substances with environmental impact”. 2) In “5. Document management”, added description of “This guideline follows and replaces the guideline with No.”FHE04S001” issued by Furukawa Electric Co., Ltd.”

No.	Revised date	Revised content
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ver 5	15th, Feb, 2011	<p>1) Changed the term of “substances with environmental impact” to “substances of environmental concern”.</p> <p>2) Defined managed substances based on GADSL (Global Automotive Declarable Substance List).</p> <p>3) Defined management classification, threshold and criteria for substances based on GADSL</p> <p>4) Changed management classification as “P: Unconditionally prohibited” “D/P: Declarable or Conditionally prohibited” and “D: Declarable”.</p> <p>5) Added description of how to use this guideline.</p>
ver 6	7th, May, 2014	<p>1) Change the name procurement guidelines with "Green Procurement Guidelines (Substance restriction in products)"</p> <p>2) Set Furukawa AS special controlled substances</p> <p>3) Remove Appendix -2</p> <p>4) Add requirements</p> <p>5) Add Format :</p> <p>Form 1:Confirmation of Green Procurement Guidelines</p>