

**Green Procurement Standard  
(Version 2)**

Established on November 15, 2006

Revised on May 15, 2008

**Yamari Industries, Ltd.**

**Table of contents**

1. Introduction..... 3

2. Environmental policy of Yamari Industries, Ltd..... 4

3. Concept of green procurement..... 5

    3.1 Purpose..... 5

    3.2 Definition ..... 5

    3.3 Scope..... 5

    3.4 Content of evaluation..... 5

    3.5 Evaluation and selection criteria of suppliers..... 5

    3.6 Evaluation and selection criteria of procurement items..... 7

4. Application criteria..... 8

    4.1 Evaluation of suppliers..... 8

    4.2 Evaluation of materials and parts..... 8

    4.3 Confidentiality..... 9

5. Others..... 9

6. Section for document submission and contact..... 9

(Form 1) Green Procurement Environmental Activity Survey Report

(Form 2) Chemical Content Survey Report

## 1. Introduction

Yamari Industries, Ltd. (hereinafter referred to as "we") obtained ISO 14001 that was established as the international standard for environmental management system in July 2004 and has conducted environmental conservation activities to "make all employees recognize the importance of environmental conservation and devote to conservation and improvement of regional and global environment through our business activities" as our environmental principle.

To continuously promote these activities, it is essential to reduce environmental load on the materials and parts that are constituents of our products. Since procurement of environmentally-friendly materials and parts, that is, "green procurement" also plays an important role in it, we established this "Green Procurement Standard".

However, the green procurement cannot be promoted only by us and assistance from our suppliers is indispensable.

Therefore, we would like to request suppliers to cooperate our green procurement activities after fully understanding the importance of environmental conservation activities.

Yamari Industries, Ltd.  
Representative director  
Shohei Noritake

2. Environmental policy of Yamari Industries, Ltd.

We established the following "Environmental Policy" to conduct the environmental conservation activities.

### **Environmental Policy of Yamari Industries, Ltd.**

**(Environmental principle)**

Yamari Industries, Ltd. shall make all employees recognize the importance of environmental conservation and devote to conservation and improvement of regional and global environment through our business activities.

**(Environmental policy)**

We conduct environmental conservation activities based on the policy below, through business activities of manufacturing and sales of thermometers (thermocouples and resistance thermometer) and micro heaters.

1. We shall build and operate the environmental management system for business management and continuously improve environmental issues and prevent pollution.
2. We shall comply with requirements of environmental laws and regulations, and other agreed requirements.
4. We shall establish following environmental target and goal as priority issue to promote the improvement activities and review continuously, when required.
  - (1) Design and manufacture the most environmentally-friendly product
  - (2) Purchasing environmentally-friendly material and parts preferentially from business partner who performs environmentally-friendly activities.
  - (3) Promotion of energy saving
  - (4) Promotion of recycling waste product
  - (5) Contribution to environmental preservation in local society

This policy shall be notified to all the people who works in or for our company and released to the public.

Established on January 23, 2004

Revised on October 1, 2006

Yamari Industries, Ltd.

Shohei Noritake

Representative director

### 3. Concept of green procurement

#### 3.1 Purpose

Our purpose shall be to reduce the load on environment caused by our business activity by actively purchasing environmentally-friendly materials and parts, and devote to the global environmental conservation by delivering the environmentally-friendly products to customers.

#### 3.2 Definition

The definition of green procurement shall be to preferentially procure the environmentally-friendly materials and parts that are used for our production from suppliers that are conscious of ecology.

#### 3.3 Scope

This standard shall be applied for materials and parts necessary for our production.

#### 3.4 Content of evaluation

At the time of materials and parts selection, we shall comprehensively evaluate them by quality and price that has been used and additional "environment" to promote green procurement.

In terms of environment, we consider the following two items as important for material procurement.

- (1) Positive approach to environmental conservation activities by suppliers
- (2) Materials and parts to be purchased from suppliers should not use or contain chemical substances that heavily load the environment.

#### 3.5 Evaluation and selection criteria of suppliers

We shall evaluate suppliers that manufacture and sell materials and parts whether they are actively addressing the environmental conservation.

In particular, we regard that the requirements are satisfied when either of the following environmental activities are being conducted regardless of certification by the third party such as ISO 14001.

However, we may determine it upon consultation with the supplier in some cases.

- (1) Compliance with regulations on environment
- (2) Implementation of energy-saving activities
- (3) Implementation of saving waste materials
- (4) Implementation of reducing paper usage

- (5) Implementation of recycle activities
- (6) Implementation of environmental education/training
- (7) Implementation of recycling package materials
- (8) Implementation of other environmental conservation activities

### 3.6 Evaluation and selection criteria of procurement items

Purchase materials and parts that do not contain the following banned chemical substances.

Please research the following 15 chemical substances that are specified by Japan Green Procurement Survey Standardization Initiative (JGPSSI).

For details, please refer to JGPSSI site: <http://home.jeita.or.jp/eps/>.

Number of chemical substances that are to be prohibited, restricted, or obliged to report by law for sale and use of products containing them are 15 and their regulation values are as follows.

For details, refer to Example Substance List on page 9 -10.

No.	Classification	Substances	Threshold
1	Metal and metal compounds	Cadmium and cadmium compounds	75ppm or intentional addition
2		Hexavalent chromium compounds	1000ppm or intentional addition
3		Lead and lead compounds	1000ppm or intentional addition 300ppm (applied for PVC cable only)
4		Mercury and mercury compounds	1000ppm or intentional addition
5		Bis(tri-n-butyltin) oxide (TBTOs)	Banned chemical substance
6	*1	Tributyl tins (TBTs) Triphenyl tins (TPTs)	Banned chemical substance
7	Halogenated organic compounds	Polybrominated biphenyls (PBBs)	1000ppm or intentional addition
8		Polybrominated diphenyl ethers (PBDEs)	1000ppm or intentional addition
9		Polychlorinated biphenyls (PCBs)	Intentional addition
10		Polychlorinated naphthalene (Cl=>3)	Intentional addition
11		Short chain chlorinated paraffins	Intentional addition
12	Others	Asbestos	Intentional addition
13		Azo colorants	Intentional addition
14		Ozone depleting substances	Intentional addition
15		Radioactive substances	Intentional addition

\*1 Including alloyed metal.

#### 4. Application criteria

At the time of selection materials and parts, we shall comprehensively evaluate them by quality and price that has been used and additional "environment" to promote green procurement.

In terms of environment, we use the following two items as guideline for decision-making and check on them regularly.

- (1) Approach to environmental conservation activities of suppliers
- (2) Environmental information of materials and parts to be purchased from suppliers (status of use of chemical substances).

#### 4.1 Evaluation of suppliers

##### (1) Evaluation criteria of suppliers

We shall preferentially procure materials and parts from the suppliers that are performing the following environmental conservation activities based on environmental management system such as ISO 14001.

However, we do not force suppliers to obtain ISO 14001 and other certifications.

- ISO 14001
- Other environmental managements (Eco Action 21, KES Environmental Management System Standard, etc.)
- Unique environmental activities

##### (2) Evaluation procedures

Each manufacturing company of procurement items shall fill in the Form 1 "Green Procurement Environmental Activity Survey Report" and submit it to us. We shall evaluate the result.

For the department for submission, please refer to Section 6 "Section for document submission and contact".

#### 4.2 Evaluation of materials and parts

##### (1) Evaluation criteria

Suppliers shall check whether the 15 chemical substances that are specified by Japan Green Procurement Survey Standardization Initiative (JGPSSI), described on Section 3.6 "Evaluation and selection criteria of procurement items" are not contained in the materials and parts to be delivered to us. We shall preferentially procure the products that do not contain banned chemical substances.

##### (2) Evaluation procedures

Suppliers shall check whether the 15 chemical substances are contained in the



material and parts to be delivered to us  
and if they are contained, please fill in the Form 2 "Chemical Content Survey Report"  
and submit it to us. If not, please fill in the Form 3 "Written Guarantee of Non-use of  
Forbidden Substances" and submit it to us. For the department for submission,  
please refer to Section 6 "Section for document submission and contact".

#### 4.3 Confidentiality

We shall use the content and evaluation results of the submitted report only for our  
internal materials and never release it to the public.

#### 5. Others

- We may request further survey and improvement depending on the result of "Green  
Procurement Environmental Activity Survey Report" and "Chemical Content Survey  
Report".
- We may request the content survey for the chemical substances that are not listed in  
the Example Substance List due to our circumstances and social situations such as  
amendment of laws. In this case, we will separately request it.
- If our customers request stricter management than our management standard, we  
may separately request it in accordance with customer's requirements.

#### 6. Section for document submission and contact

For submission of documents on and inquiry for our "Green Procurement Standard",  
contact the following section.

International Business Dept., Administration & Planning Division (document submission)

TEL: +81-72-678-3452

FAX: +81-72-679-1163

Quality Assurance Office (inquiry)

TEL: +81-72-678-6519

FAX: +81-72-678-0976

## Example Substance List

No	Substances	Example substance name	CAS No.
1	Cadmium and cadmium compounds	Cadmium	7440-43-9
		Cadmium oxide	1306-19-0
		Cadmium sulfide	1306-23-6
		Cadmium chloride	10108-64-2
		Cadmium sulfate	10124-36-4
		Other cadmium compounds	-
2	Hexavalent chromium compounds	Chromium (VI) oxide	1333-82-0
		Barium chromate	10294-40-3
		Calcium chromate	13765-19-0
		Chromium trioxide	1333-82-0
		Lead (II) chromate	7758-97-6
		Sodium chromate	7775-11-3
		Sodium dichromate	10588-01-9
		Strontium chromate	7789-06-2
		Potassium dichromate	7778-50-9
		Potassium chromate	7789-00-6
		Zinc chromate	13530-65-9
		Other hexavalent chromium compounds	-
		3	Lead and lead compounds
Lead (II) sulfate	7446-14-2		
Lead (II) carbonate	598-63-0		
Lead hydroxidcarbonate	1344-36-1		
Lead acetate	301-04-2		
Lead (II) acetate, trihydrate	6080-56-4		
Lead phosphate	7446-27-7		
Lead selenide	12069-00-0		
Lead (IV) oxide	1309-60-0		
Lead (II, IV) oxide	1314-41-6		
Lead (II) sulfide	1314-87-0		
Lead (II) oxide	1317-36-8		
Lead (II) carbonate basic	1319-46-6		
Lead (II) phosphate	7446-27-7		
Lead (II) chromate	7758-97-6		
Lead (II) titanate	12060-00-3		
Lead sulfate, sulphuric acid, lead salt	15739-80-7		
Lead sulphate, tribasic	12202-17-4		
Lead stearate	1072-35-1		
Other lead compounds	-		
4	Mercury and mercury compounds	Mercury	7439-97-6
		Mercuric chloride	33631-63-9
		Mercury (II) chloride	7487-94-7
		Mercuric sulfate	7783-35-9
		Mercuric nitrate	10045-94-0
		Mercuric (II) oxide	21908-53-2
		Mercuric sulfide	1344-48-5
Other mercury compounds	-		
5	Bis(tri-n-butyltin) oxide (TBTOs)	Bis(tri-n-butyltin) oxide	56-35-9
6	Tributyl tins (TBTs) Triphenyl tins (TPTs)	Bis(tri-n-butyltin) oxide	56-35-9
		Triphenyltin N,N'-dimethyldithiocarbamate	1803-12-9
		Triphenyltin fluoride	379-52-2
		Triphenyltin acetate	900-95-8
		Triphenyltin chloride	639-58-7

No	Substances	Example substance name	CAS No.
		Triphenyltin hydroxide	76-87-9
		Triphenyltin fatty acid salts (C=9-11)	47672-31-1
		Triphenyltin chloroacetate	7094-94-2
		Tributyltin methacrylate	2155-70-6
		Bis(tributyltin)fumarate	6454-35-9
		Tributyltin fluoride	1983-10-4
		Bis(tributyltin)2,3-dibromosuccinate	31732-71-5
		Tributyltin acetate	56-36-0
		Tributyltin laurate	3090-36-6
		Bis(tributyltin) phthalate	4782-29-0
		Copolymer of alkyl acrylate, methyl methacrylate and tributyltin methacrylate (alkyl;C=8)	-
		Tributyltin sulfamate	6517-25-5
		Bis(tributyltin) maleate	14275-57-1
		Tributyltin chloride	1461-22-9
		Mixture of tributyltin cyclopentanecarboxylate and its analogs (Tributyltin naphthenate)	-
		Mixture of tributyltin 1,2,3,4,4a,4b,5,6,10,10a-decahydro-7-isopropyl-1,4a-dimethyl-1-phenanthrenecarboxylate and its analog (Tributyltin rosin salt)	-
		Other Tributyl Tins & Triphenyl Tins	-
7	Polybrominated biphenyls (PBBs)	Bromobiphenyl and its ethers	2052-07-5(2-bromobiphenyl) 2113-57-7(3-bromobiphenyl) 92-66-0(4-bromobiphenyl) 101-55-3 (ether)
8	Polybrominated diphenyl ethers (PBDEs)	Decabromobiphenyl and its ethers	13654-09-6 1163-19-5 (ether)
		Dibromobiphenyl and its ethers	92-86-4 2050-47-7 (ether)
		Heptabromobiphenylether	68928-80-3
		Hexabromobiphenyl and its ethers	59080-40-9 36355-01-8 (Hexabromobiphenyl-1,1-biphenyl) 67774-32-7 (Firemaster FF-1)36483-60-0(ether)
		Nonabromobiphenylether	63936-56-1
		Octabromobiphenyl and its ethers	61288-13-9 32536-52-0 (ether)

No	Substances	Example substance name	CAS No.
		Pentabromobidphenyl ether (Note: Commercially available PeBDPO is a complex reaction mixture containing a variety of brominated diphenyloxides.)	32534-81-9 (CAS No. of PeBDPO for commercial grade)
		Polybrominated biphenyls	59536-65-1
		Tetrabromobiphenyl and ethers	40088-45-7 40088-47-9
		Tribromobiphenyl ether	49690-94-0
9	Polychlorinated biphenyls (PCBs)	Polychlorinated biphenyls	1336-36-3
		Aroclor	12767-79-2
		Chlorodiphenyl (Aroclor1260)	11096-82-5
		Kanechlor 500	27323-18-8
		Aroclor 1254	11097-69-1
		Terphenyls	26140-60-3
10	Polychlorinated naphthalene (Cl=>3)	Polychlorinated naphthalenes	70776-03-3
		Other polychlorinated naphthalenes	-
11	Short chain chlorinated paraffins	Chlorinated paraffins (C10-13) [1]	85535-84-8
		Other Short Chain Chlorinated Paraffins	-
12	Asbestos	Asbestos	1332-21-4
		Actinolite	77536-66-4
		Amosite (Grunerite)	12172-73-5
		Anthophyllite	77536-67-5
		Chrysotile	12001-29-5
		Crocidolite	12001-28-4
		Tremolite	77536-68-6
13	Azo colorants	Biphenyl-4-ylamine	92-67-1
		Benzidine	92-87-5
		4-chloro-o-toluidine	95-69-2
		2-naphthylamine	91-59-8
		o-aminoazotoluene	97-56-3
		5-nitro-o-toluidine	99-55-8
		4-chloroaniline	106-47-8
		4-methoxy-m-phenylenediamine	615-05-4
		4,4'-methylenedianiline	101-77-9
		3,3'-dichlorobenzidine	91-94-1
		3,3'-dimethoxybenzidine	119-90-4
		3,3'-dimethylbenzidine	119-93-7
		4,4'-methylenedi-o-toluidine	838-88-0
		6-methoxy-m-toluidine	120-71-8
		4,4'-methylene-bis (2-chloroaniline)	101-14-4
		4,4'-oxydianiline	101-80-4
		4,4'-thiodianiline	139-65-1
		o-toluidine	95-53-4
		4-methyl-m-phenylenediamine	95-80-7
		2,4,5-trimethylaniline	137-17-7
		o-anisidine	90-04-0
		4-amino-azobenzene	60-09-3
14	Ozone depleting substances	Trichlorofluoromethane	75-69-4
		Dichlorodifluoromethane (CFC12)	75-71-8
		Chlorotrifluoromethane (CFC13)	75-72-9
		Pentachlorofluoroethane (CFC111)	354-56-3
		Tetrachlorodifluoroethane (CFC112)	76-12-0

No	Substances	Example substance name	CAS No.
		Trichlorotrifluoroethane (CFC113)	354-58-5
		1,1,2Trichloro-1,2,2trifluoroethane	76-13-1
		Dichlorotetrafluoroethane (CFC114)	76-14-2
		Monochloropentafluoroethane (CFC115)	76-15-3
		Heptachlorofluoropropane (CFC211)	422-78-6 135401-87-5
		Hexachlorodifluoropropane (CFC212)	3182-26-1
		Pentachlorotrifluoropropane (CFC213)	2354-06-5 134237-31-3
		Tetrachlorotetrafluoropropane (CFC214)	29255-31-0
		1,1,1,3-Tetrachlorotetrafluoro- propane	2268-46-4
		Trichloropentafluoropropane (CFC215)	1599-41-3
		1,1,1-Trichloropentafluoropropane	4259-43-2
		1,2,3-Trichloropentafluoropropane	76-17-5
		Dichlorohexafluoropropane (CFC216)	661-97-2
		Monochloroheptafluoropropane (CFC217)	422-86-6
		Bromochlorodifluoromethane (Halon1211)	353-59-3
		Bromotrifluoromethane (Halon1301)	75-63-8
		Dibromotetrafluoroethane (Halon2402)	124-73-2
		Carbon Tetrachloride (Tetrachloromethane)	56-23-5
		1,1,1,-Trichloroethane(methyl chloroform) and its isomers except 1,1,2-trichloroethane	71-55-6
		Bromomethane (Methyl Bromide)	74-83-9
		Bromodifluoromethane and its isomers (HBFCs)	1511-62-2
		Dichlorofluoromethane (HCFC21)	75-43-4
		Chlorodifluoromethane (HCFC22)	75-45-6
		Chlorofluoromethane (HCFC31)	593-70-4
		Tetrachlorofluoroethane (HCFC121)	134237-32-4
		1,1,1,2-tetrachloro-2-fluoroethane (HCFC121a)	354-11-0
		1,1,2,2-tetracloro-1-fluoroethane	354-14-3
		Trichlorodifluoroethane (HCFC122)	41834-16-6
		1,2,2-trichloro-1,1-difluoroethane	354-21-2
		Dichlorotrifluoroethane (HCFC123)	34077-87-7
		Dichloro-1,1,2-trifluoroethane	90454-18-5
		2,2-dichloro-1,1,1-trifluoroethane	306-83-2

No	Substances	Example substance name	CAS No.
		1,2-dichloro-1,1,2-trifluoroethane (HCFC123a)	354-23-4
		1,1-dichloro-1,2,2-trifluoroethane (HCFC123b)	812-04-4
		2,2-dichloro-1,1,2-trifluoroethane (HCFC123b)	812-04-4
		Chlorotetrafluoroethane (HCFC124)	63938-10-3
		2-chloro-1,1,1,2-tetrafluoroethane	2837-89-0
		1-chloro-1,1,2,2-tetrafluoroethane (HCFC124a)	354-25-6
		Trichlorofluoroethane (HCFC131)	27154-33-2;
		1-Fluoro-1,2,2-trichloroethane	(134237-34-6)
		1,1,1-trichloro-2-fluoroethane (HCFC131b)	359-28-4 811-95-0
		Dichlorodifluoroethane (HCFC132)	25915-78-0
		1,2-dichloro-1,1-difluoroethane (HCFC132b)	1649-08-7
		1,1-dichloro-1,2-difluoroethane (HCFC132c)	1842-05-3
		1,1-dichloro-2,2-difluoroethane	471-43-2
		1,2-dichloro-1,2-difluoroethane	431-06-1
		Chlorotrifluoroethane (HCFC133)	1330-45-6
		1-chloro-1,2,2-trifluoroethane	1330-45-6
		2-chloro-1,1,1-trifluoroethane (HCFC133a)	75-88-7
		Dichlorofluoroethane (HCFC141)	1717-00-6; (25167-88-8)
			1717-00-6
		1,1-dichloro-1-fluoroethane (HCFC141b)	430-57-9
		1,2-dichloro-1-fluoroethane	
		Chlorodifluoroethane (HCFC142)	25497-29-4
		1-chloro-1,1-difluoroethane (HCFC142b)	75-68-3
		1-chloro-1,2-difluoroethane (HCFC142a)	25497-29-4
		Hexachlorofluoropropane (HCFC221)	134237-35-7
		Pentachlorodifluoropropane (HCFC222)	134237-36-8
		Tetrachlorotrifluoropropane (HCFC223)	134237-37-9
		Trichlorotetrafluoropropane (HCFC224)	134237-38-0
		Dichloropentafluoropropane, (Ethyne, fluoro-) (HCFC225)	127564-92-5, (2713-09-9)
		2,2-Dichloro-1,1,1,3,3-pentafluoropropane (HCFC225aa)	128903-21-9
		2,3-Dichloro-1,1,1,2,3-pentafluoropropane (HCFC225ba)	422-48-0
		1,2-Dichloro-1,1,2,3,3-pentafluoropropane (HCFC225bb)	422-44-6
		3,3-Dichloro-1,1,1,2,2-pentafluoropropane (HCFC225ca)	422-56-0
		1,3-Dichloro-1,1,2,2,3-pentafluoropropane (HCFC225cb)	507-55-1
		1,1-Dichloro-1,2,2,3,3-pentafluoropropane (HCFC225cc)	13474-88-9

No	Substances	Example substance name	CAS No.
		1,2-Dichloro-1,1,3,3,3-pentafluoropropane(HCFC225da)	431-86-7
		1,3-Dichloro-1,1,2,3,3-pentafluoropropane(HCFC225ea)	136013-79-1
		1,1-Dichloro-1,2,3,3,3-pentafluoropropane(HCFC225ed)	111512-56-2
		Chlorohexafluoropropane (HCFC226)	134308-72-8
		Pentachlorofluoropropane (HCFC231)	134190-48-0
		Tetrachlorodifluoropropane (HCFC232)	134237-39-1
		Trichlorotrifluoropropane (HCFC233)	134237-40-4
		1,1,1-Trichloro-3,3,3-trifluoropropane	7125-83-9
		Dichlorotetrafluoropropane (HCFC234)	127564-83-4
		Chloropentafluoropropane (HCFC235)	134237-41-5
		1-Chloro-1,1,3,3,3-pentafluoropropane	460-92-4
		Tetrachlorofluoropropane (HCFC241)	134190-49-1
		Trichlorodifluoropropane (HCFC242)	134237-42-6
		Dichlorotrifluoropropane (HCFC243)	134237-43-7
		1,1-dichloro-1,2,2-trifluoropropane	7125-99-7
		2,3-dichloro-1,1,1-trifluoropropane	338-75-0
		3,3-dichloro-1,1,1-trifluoropropane	460-69-5
		Chlorotetrafluoropropane (HCFC244)	134190-50-4
		3-chloro-1,1,2,2-tetrafluoropropane	679-85-6
		Trichlorofluoropropane (HCFC251)	134190-51-5
		1,1,3-trichloro-1-fluoropropane	818-99-5
		Dichlorodifluoropropane (HCFC252)	134190-52-6
		Chlorotrifluoropropane (HCFC253)	134237-44-8
		3-chloro-1,1,1-trifluoropropane (HCFC253fb)	460-35-5
		Dichlorofluoropropane (HCFC261)	134237-45-9
		1,1-dichloro-1-fluoropropane	7799-56-6
		Chlorodifluoropropane (HCFC262)	134190-53-7
		2-chloro-1,3-difluoropropane	102738-79-4
		Chlorofluoropropane (HCFC271)	134190-54-8
		2-chloro-2-fluoropropane	420-44-0
15	Radioactive substances	Uranium	-
		Plutonium	-
		Radon	-
		Americium	-
		Thorium	-
		Cesium	7440-46-2
		Strontium	7440-24-6
		Other radioactive substances	-