

Yazaki Green Purchasing Guidelines

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Purchasing Operations
Yazaki Corporation

Yazaki Green Purchasing Guidelines

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- 1) Creation of an environmental management system
- 2) Reduction of of environmentally hazardous substances
- 3) Reduction of other chemical substances
- 4) Provision of chemical substance data
- 5) Registration of the name of the environmental manager

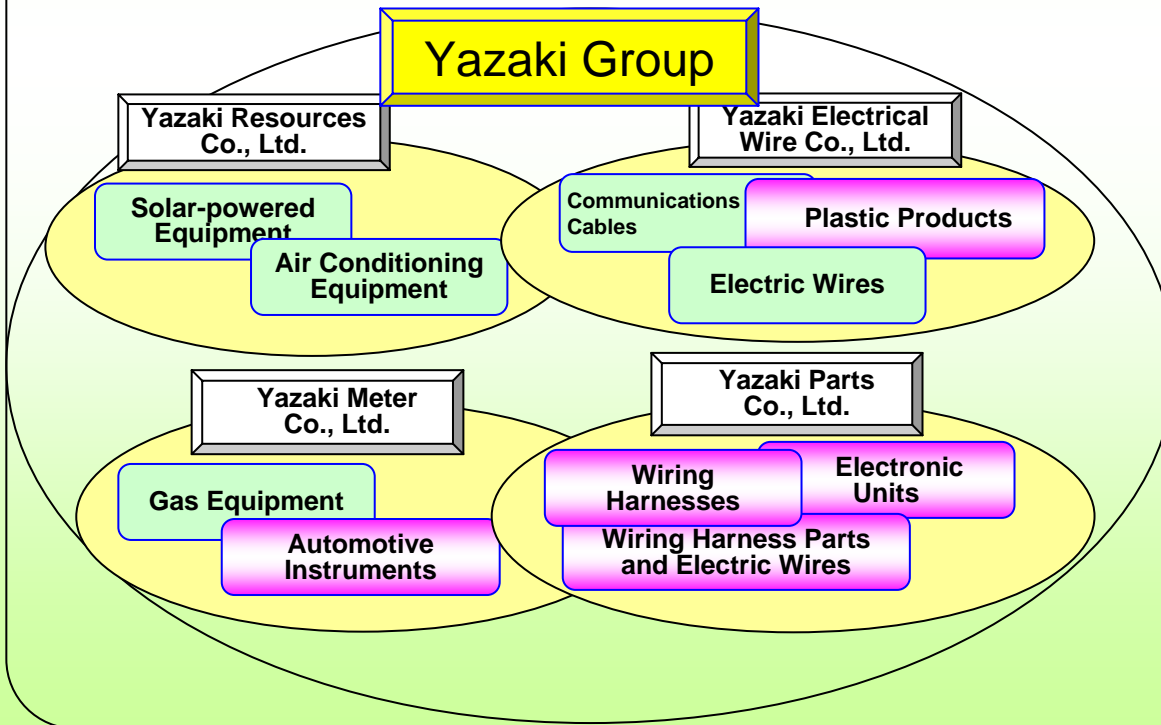
1. Objectives of the Yazaki Green Purchasing Guidelines

The Yazaki Group undertakes activities to preserve the global environment in all of its divisions including marketing, development, and production. These company-wide activities require not only efforts within the company, but also the cooperation of suppliers and others who support our operations.

These guidelines request that suppliers create an environmental management system, reduce the use of substances of environmental concern, and provide data on chemical substances. They are intended to promote the implementation of the Yazaki Group Environmental Policy from the perspective of purchasing.

2. Scope of Application of the Guidelines

These guidelines apply to the purchase of parts used in production by the Yazaki Group Automotive Sector and the suppliers from whom those parts are purchased. This includes materials and parts used in wiring harness related parts, automotive meters, automotive electronic equipment, automotive instruments, and so on.



Initially, these guidelines will not apply to purchased parts relating to the Environmental Systems Sector (electric wires, gas equipment, air-conditioning equipment).

Further measures will be taken as we closely monitor future societal conditions, industry trends, and so on.

3. Requests to Suppliers

We would like to make the following requests to all Automotive Sector suppliers.

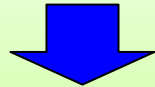
- 1) Creation of an environmental management system
- 2) Reduction of of environmentally hazardous substances
- 3) Reduction of other chemical substances
- 4) Provision of chemical substance data
- 5) Registration of the name of the environmental manager

1) Creation of an Environmental Management System

It is necessary for Yazaki Group suppliers to comply with all applicable laws and regulations and to actively promote activities intended to preserve the global environment. Specific actions that we would like our suppliers to take include acquisition of ISO 14001 certification or creation of a similar environmental management system.

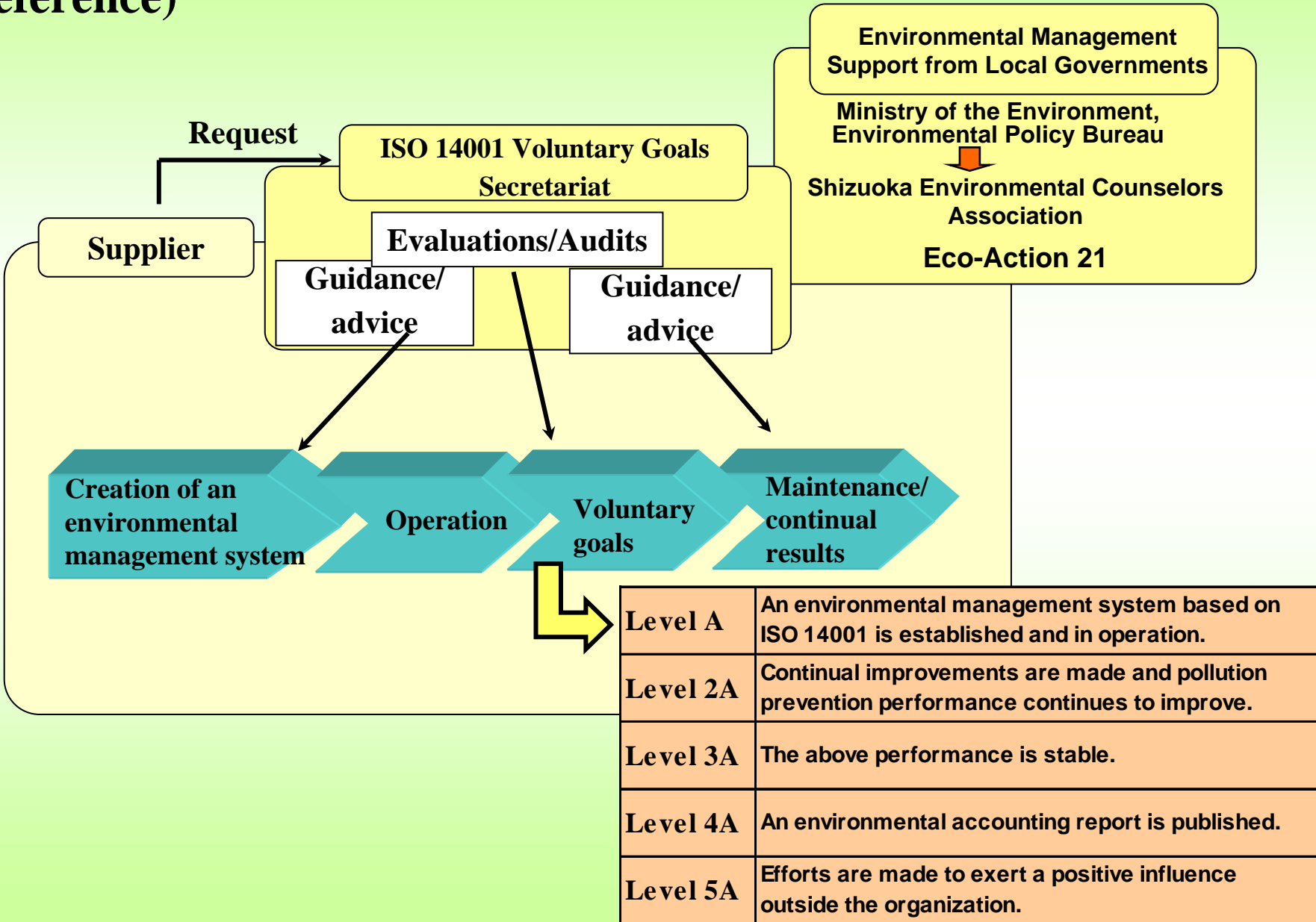
By the end of December 2005, please:

- Acquire ISO 14001 certification, or
- Create a similar environmental management system.



* Following the distribution of these guidelines, "environmental management system" will be added as a supplier evaluation category.

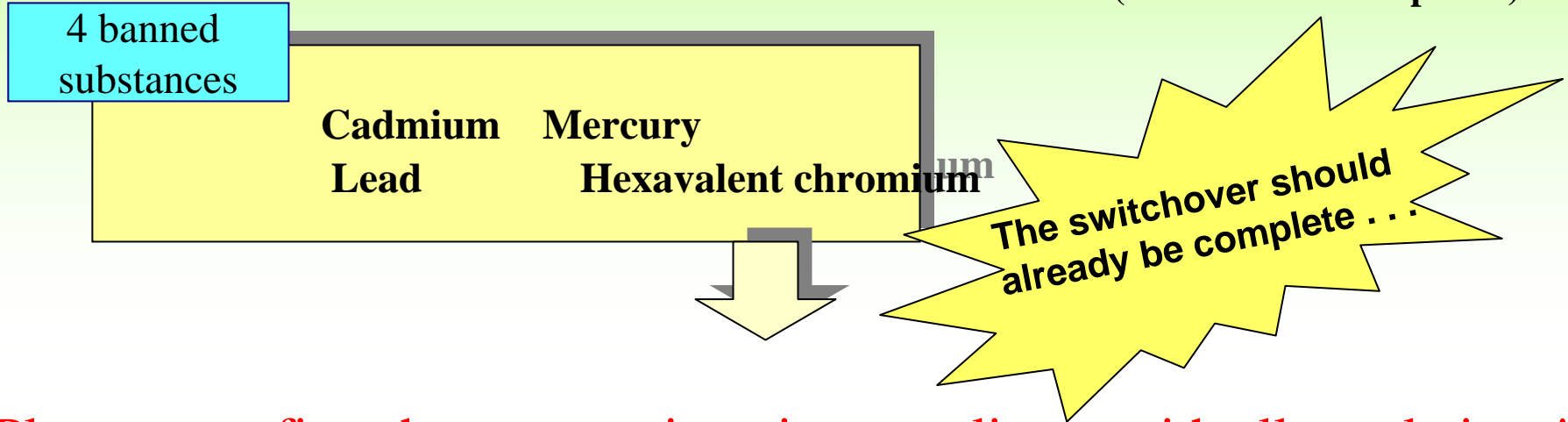
Creation of a Similar Environmental Management System (Reference)



2) Reduction of Environmentally Hazardous Substances

Step 1

EU ELV directive effective July 2003... in principle bans the use of
(with certain exemptions)



Please reconfirm that you are in strict compliance with all regulations!

- Re-inspect all non-metallic materials and parts such as resin, rubber, pigments, paints, solvents, inks, labels, and tape.
- Reconfirm the handling of parts subject to management designed to prevent distribution of older parts from inventories.
- Confirm the management of materials received and process management for each process through analysis of data and materials tables.

2) Reduction of Environmentally Hazardous Substances

Banned substances

Step 2

No	Regulation name	Substance group	Substance name	Product
1	ELV	Chromium (VI) compound	Sodium Dichromate Chromium(VI) oxide Calcium chromate Lead(II) chromate, etc	Nuts, bolts, collars and anti-corrosion treatment for steel sheets requiring surface treatment
2	ELV	Lead and its compounds	Lead, Lead(II) carbonate, Lead(IV) oxide, Lead(II,IV) oxide, Lead(II) sulfide, Lead(II) oxide, Lead(II) carbonate basic, Lead(II) phosphate, etc.	Solder, stabilizing agents for plastics, glass reinforcements, copper alloy materials, etc.
3	RoHS	Designated bromine compounds	Tetrabromobiphenol Hexabromobiphenyl Pentabromodiphenyl ether Octabromodiphenyl ether	PCBs, plastic parts, electric wires, tubes etc.

2) Reduction of Environmentally Hazardous Substances

	2004	2005	2006	2007	2008
Foreseen ELV regulations				July	
Yazaki switchover	June				

Schedule for switchover to lead-free solder

Lead solder used during assembly of wiring boards for vehicles is not covered by current regulations.

However, it is clear that it **will be regulated a few years from now.**

 **Likely to be included in revised ELV regulations commencing July, 2007.**

Schedule		July 2004	July 2005	July 2007
Target items	Step	1	2	3
Base plate	Solder leveler	No response	Vehicles launched in July 2005 and after	Including stocks
Material	Solder paste	Some vehicles	Vehicles launched in July 2005 and after	Including stocks
Parts	Period of grace: For parts subject to regulation, please submit a switchover application immediately after evaluation.			Including stocks

2) Reduction of Environmentally Hazardous Substances

Schedule for switchover from designated bromine-based flame retardants

1. Substance name **PBB (Polybrominated biphenyls such as Tetrabromobiphenol and Hexabromobiphenyl)**

PBDE (Polybrominated diphenyl ethers such as Pentabromodiphenyl ether and Octabromodiphenyl ether)

2. These substances are currently not produced in Japan. There is the possibility, however, that they are incorporated in parts and materials imported from overseas. Please examine all materials that may include these substances, and if they are found, report the information to us.

Substances Banned from Use by Yazaki

No.	Substance group	Substance name	Chemical formula	CAS No.
1	Lead and its compounds	Lead Lead (II) carbonate Lead (IV) oxide Lead (II, IV) oxide Lead (II) sulfide Lead (II) oxide Lead (II) carbonate basic Lead hydroxidcarbonate Lead (II) sulfate Lead (II) phosphate Lead (II) chromate Lead (II) titanate Lead sulfate, sulphuric acid, lead salt Tribasic lead sulfate Lead stearate Dibasic lead stearate	Pb PbCO ₃ PbO ₂ Pb ₃ O ₄ PbS PbO 2PbCO ₃ . Pb(OH) ₂ 2PbCO ₃ . Pb(OH) ₂ PbSO ₄ Pb ₃ (PO ₄) ₂ PbCrO ₄ PbTiO ₃ PbXS ₄ 3PbO.PbSO ₄ .H ₂ O Pb (C ₁₇ H ₃₅ COO) ₂ 2PbO.Pb(C ₁₇ H ₃₅ COO) ₂ —	7439-92-1 598-63-0 1309-60-0 1314-41-6 1314-87-0 1317-36-8 1319-46-6 1344-36-1 7446-14-2 7446-27-7 7758-97-6 12060-00-3 15739-80-7 12202-17-4 1072-35-1 56819-09-4 —
2	Mercury and its compounds	Mercury Mercury (II) chloride Mercury (II) oxide	Hg HgCl ₂ HgO —	7439-97-6 7487-94-7 21908-53-2 —
3	Cadmium and its compounds	Cadmium Cadmium oxide Cadmium sulfide Cadmium chloride Cadmium sulfate	Cd CdO CdS CdCl ₂ CdSO ₄ —	7440-43-9 1306-19-0 1306-23-6 10108-64-2 10124-36-4 —

No.	Substance group	Substance name	Chemical formula	CAS No.
4	Hexavalent chromium compounds	Sodium dichromate Chromium (VI) oxide Calcium chromate Lead (II) chromate Potassium dichromate Potassium chromate	$\text{Na}_2\text{Cr}_2\text{O}_7$ CrO_3 CaCrO_4 PbCrO_4 $\text{K}_2\text{Cr}_2\text{O}_7$ K_2CrO_4 —	10588-01-9 1333-82-0 13765-19-0 7758-97-6 7778-50-9 7789-00-6 —
5	Designated bromine-based flame retardants PPB (Polybrominated biphenyls) PBDE (Pentabromodiphenyl ether)	Tetrabromobiphenyl Hexabromobiphenyl ether Pentabromobiphenyl ether Octabromobiphenyl ether	$\text{C}_{12}\text{H}_6\text{Br}_4$ $\text{C}_{12}\text{H}_4\text{Br}_6$ $\text{C}_{12}\text{H}_5\text{Br}_5\text{O}$ $\text{C}_{12}\text{H}_5\text{Br}_8\text{O}$	40088-45-7 36355-01-8 32534-81-9 32536-52-0
6	Designated plasticizers	Dibutyl phthalate Di(2-ethylhexyl) phthalate	$\text{C}_{16}\text{H}_{22}\text{O}_4$ $\text{C}_{24}\text{H}_{38}\text{O}_4$	84-74-2 117-81-7

4) Provision of Chemical Substance Data

The contact person (normally the Purchasing Buyer) at Yazaki will make periodic requests for the provision of data concerning chemical substances using an inquiry form in order to conduct investigations of the chemical substances incorporated in parts in accordance with requests from customers and to promote our environmental preservation activities. We ask for your cooperation with these requests.

- 1) IMDS inquiries and submissions
- 2) Declaration of no use of Banned Substances
- 3) Inquiries concerning the composition of newly developed products (planned for the future)