

Nikon Green Procurement Standards



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NIKON CORPORATION

Contents

Section 1: Nikon’s Basic Policy	
1. Nikon Basic Environmental Management Policy	3
2. Nikon Basic Green Procurement Policy	4
Section 2: Nikon Green Procurement Standards	
1. Objective	5
2. Applicable scope	5
3. Definitions of terms	5
4. Requirements	7
4.1 Requirements for environmental management systems	7
4.1.1 Establishment of an Management System of Environmental Protection	7
4.1.2 Establishment of Management System of Chemical Substances in Products	7
4.2 Requirements for environmental impact chemical substances	9
4.2.1 Chemical substances standards in products	10
4.2.2 Chemical substances standards in manufacturing processes	15
5. Procedures for Nikon Green Procurement Standards	16
5.1 Nikon Green Procurement Standards Agreement/Basic Agreement and Quality Assurance Agreement	17
5.2 Surveys and audits of environmental management system	17
5.2.1 Environmental management system surveys	17
5.2.2 Environmental management system audits	17
5.2.3 Nikon Environmental Partner designation	17
5.3 Requirements for environmental impact chemical substances	18
5.3.1 Non-use guarantee	18
5.3.2 Survey of environmental impact chemical substances	18
5.3.3 Submission of alternative products and technologies	18
6. Measures in response to requirements	18
6.1 Environmental management system	18
6.2 Environmental impact chemical substances	18
7. Standards revision	19
8. Handling of information from all suppliers	19
Annexes	20
Annex 1: Nikon Group companies responsible for the management and enforcement of the Nikon Green Procurement Standards	20
Annex 2: Nikon Green Procurement Standards Agreement	21
Annex 3: “Non-use guarantee”	22
Annex 4: Ozone-depleting substances	23
Annex 5: Class I Specified Chemical Substances under Japan’s Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.	24
Annex 6: Hazardous materials prohibited from manufacture under Japanese Industrial Safety and Health Law	25
Revision History	26

Section 1: Nikon's Basic Policy

1. Nikon Basic Environmental Management Policy

Nikon Basic Environmental Management Policy

1. Basic Philosophy

Nikon (Nikon Corporation and Nikon Group), based on Nikon Group's corporate philosophy of "Trustworthiness and Creativity," makes coexistence and co-prosperity with the universe, the Earth, the world and local communities among its highest priorities, and aims to pass a sound environment allowing sustainable development of society along to the next generation, prevents environmental pollutions, promotes effective use of resources, aims to build a recyclable society, thus contributing to the conservation and improvement of the global environment.

2. Basic Attitude

Nikon recognizes that measures addressing environmental problems are indispensable for human existence and corporate progress, and makes global environmental conservation efforts as a responsible company by minimizing its impact on the natural environment, including climate and biodiversity. Nikon also spreads these activities to Nikon suppliers as well as Nikon, securing society's trust and sympathy through its excellent products that are friendly to mankind and the Earth.

3. Action Guidelines

- (1) We will make every effort to promote waste reduction, reuse and recycling, while encouraging energy and resource conservation, waste reduction and conscientious waste processing, with the goal of creating an environment-conscious recycling society.
- (2) We will perform environmental and safety reviews, including reviews on biodiversity, at every stage of planning, development and design, in order to provide products that fully comply with environmental protection aims.
- (3) At every level of production, distribution, use and disposal, we will actively introduce materials and equipment that are effective in protecting the environment including biodiversity, strive to develop and improve technologies in this area, and work to minimize environmental burdens.
- (4) We will meet targets for reduction of environmental burdens and use of harmful substances, and continue to improve our environmental management system through environmental audits and other means.
- (5) We will develop and follow a rigorous code of standards, in addition to observing all environmental conservation treaties, national and regional laws and regulations.
- (6) We will conduct ongoing education programs to further employee knowledge of environmental issues and promote employee involvement in environmental activities.
- (7) We will provide suppliers with guidance and information to promote optimal environmental protection activities.
- (8) We will participate actively in the environmental protection programs of society at large in collaboration with stakeholders, and implement information disclosure.

2. Nikon Basic Green Procurement Policy

Nikon Procurement Standards are distributed to Nikon Group¹ suppliers as a part of a group-wide program to promote sound procurement policies. In keeping with this approach, we introduced Nikon Green Procurement Standards, which are distributed to promote environmentally sound procurement policies.

Nikon Basic Green Procurement Policy

1. To give priority to the purchase of items produced while taking environmental issues into consideration.
2. To give priority to suppliers who are proactive in caring for and conserving the environment

Nikon Basic Procurement Policy

1. Sound corporate activities

The Nikon Group shall conduct sound and fair corporate activities, while complying with applicable laws and prescriptive social norms.

2. Open-door procurement

The Nikon Group procures goods and services from global suppliers in as transparent a fashion as possible.

3. Procurement based on the concept of fair competition

Based on the principles of fair, free competition, the Nikon Group assigns top priority to suppliers that offer superior performance in terms of quality, cost, delivery, and corporate reliability.

4. Procurement based on the concept of partnership

Our approach is that the Nikon Group and our suppliers are partners working together to make good products. Under this approach, we work to understand each other, to build a relationship of trust, and to prosper together.

5. Green procurement

For the protection of the global environment, the Nikon Group assigns priority to suppliers that provide consideration for environmental issues and that are actively engaged in environmental preservation activities in the manufacturing process for the procured goods.

Note 1: "Nikon Group" refers to Nikon Corporation and all Nikon Group Companies. Refer to Appendix 1 "Nikon Group Companies subject to Nikon Green Procurement Standards."

Section 2: Nikon Green Procurement Standards

1. Objective

The Nikon Group has established these standards as part of its efforts to offer environmental conscious products in contributing to the establishment of a sustainable society. These standards contain an explanation of the Nikon Group Philosophy, requirements for suppliers, their operations, measures and actions.

The Nikon Group, in cooperation with suppliers proactively involved in environmental protection programs, promotes the implementation of green procurement programs.

2. Applicable scope

- 1) All the organizations and business activities of suppliers delivering procured products specified in 2) below to the Nikon Group (including their manufacturing process)
- 2) Procured products specified as follows:
 - (1) Finished products Products designed and/or manufactured by third parties contracted by the Nikon Group, and sold with the Nikon Group brand.
 - (2) Parts and materials Parts and materials comprising Nikon products², including product accessories such as guarantee cards or warranty certificates, auxiliary materials such as adhesives or lubricants, and repair parts.
 - (3) Packaging Nikon product packaging, including packing materials used in transport. Does not include materials controlled by shipping companies or suppliers.
 - (4) Sales promotion goods Materials that are passed on to end users.

3. Definitions of terms

- 1) “Nikon products” refers to all products manufactured by the Nikon Group, including those sold as Nikon brand products.
- 2) Environmental management system
A system comprising an Management System of Environmental Protection and a Management System of Chemical Substances in Products as prescribed in “4.1. Requirements for environmental management systems” below.
 - (1) Management System of Environmental Protection
A system for reducing the environmental burden of business activities. (See “4.1.1. Establishment of an Management System of Environmental Protection.”)
 - (2) Management System of Chemical Substances in Products
A system for managing and reducing the use of environmental impact chemical substances in products procured as a component of Nikon products (See “4.1.2. Establishment of Management System of Chemical Substances in Products.”)
- 3) Environmental impact chemical substances
Chemical substances whose use in products and processes must be prohibited and controlled by suppliers according to the Nikon Group’s request and based upon applicable national regulations, both in Japan and overseas, as well as related international conventions (See “4.2. Requirements for environmental impact chemical substances.”)
- 4) Chemical substances in products
Chemical substances contained in procured products defined in “2. Applicable scope 2).” These chemical substances are divided into the following two types:
 - (1) Prohibited chemical substances in products
Chemical substances whose use in procured products specified in these standards is prohibited (See “4.2.1. Chemical substances standards in products 1) Prohibited chemical substances in products.”)

- (2) Restricted chemical substances in products
Chemical substances that require appropriate control when used in procured products specified in these standards (See “4.2.1. Chemical substances standards in products 2) Restricted chemical substances in products.”)
- 5) Chemical substances in manufacturing processes
Chemical substances used in suppliers’ manufacturing processes. These chemical substances are divided into the following two types. The requirements for these chemical substances may differ in Japan and other countries.
 - (1) Prohibited chemical substances in manufacturing processes
Chemical substances whose use in manufacturing processes at suppliers is prohibited (See “4.2.2. Chemical substances standards in manufacturing processes 1) Prohibited chemical substances in manufacturing processes.”)
 - (2) Restricted chemical substances in manufacturing processes
Chemical substances that require appropriate control when used in manufacturing processes at suppliers (See “4.2.2. Chemical substances standards in manufacturing processes 2) Restricted chemical substances in manufacturing processes.”)
- 6) Restricted chemical substances
Chemical substances for which suppliers need to maintain a system to provide information on the type and amount of the substance used, part of the product where the substance is used, manufacturing process in which the substance is used, and others immediately upon request of the Nikon Group

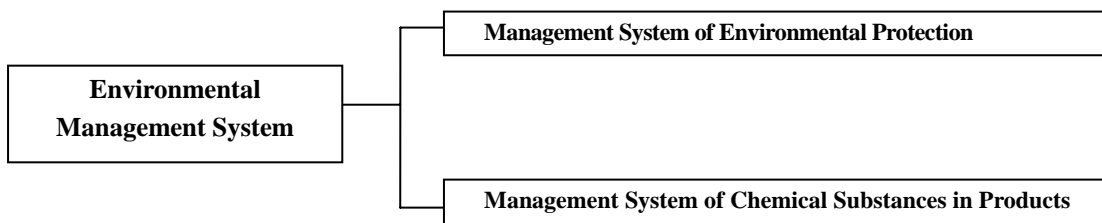
4. Requirements

The Nikon Group encourages all its suppliers to comply with both international convention and national regulation in fulfilling corporate social responsibility. To this end, the Nikon Group requests suppliers to comply with the following requirements for environmental management systems as well as for environmental impact substances used in procured products and their manufacturing processes.

4.1 Requirements for environmental management systems

The Nikon Group requests that suppliers establish an environmental management system, comprising both Management System of Environmental Protection and a Management System of Chemical Substances in Products, as shown in Fig. 1 below. Suppliers are also requested to ensure that their own suppliers have been made aware of and are compliant with Nikon requirements. Suppliers are further requested to provide their own suppliers with all support, guidance, and supervision necessary to ensure that compliance on a continuing basis.

Figure 1: Environmental Management System



4.1.1 Establishment of an Management System of Environmental Protection

The Management System of Environmental Protection is a system for reducing the environmental burden of business activities. The system must also cover environmental impact chemical substances used in manufacturing processes. While a system certified by a third-party certification body is preferable, the supplier's proprietary Management System of Environmental Protection is also acceptable. The Nikon Group requests that suppliers establish one of the following Management System of Environmental Protections.

- (1) System certified by ISO 14001
- (2) System certified by third-party certification other than ISO 14001
Eco-Action 21, Eco-Stage or Michinoku EMS (These three are Japan's certification systems.)
- (3) Supplier's proprietary system

4.1.2 Establishment of Management System of Chemical Substances in Products

The Management System of Chemical Substances in Products is a system for managing and reducing the use of environmental impact substances in products procured as a component of Nikon products.

The Nikon Group requests that suppliers establish a system that matches their size and type of business, and that meets the requirements specified in "Table 1: Management System of Chemical Substances in Products" on the next page.

Management System of Chemical Substances in Products

1 Policy

Declare items to be dealt with in management of chemical substances in products.

2 Planning

2.1 Definition of management criteria

Management criteria to be followed shall be clarified based on legislation and industry criteria related to management of chemical substances, and conveyed to related corporate units.

2.2 Definition of scope of management

'Organizations,' 'business' 'chemical substances in products,' 'constituent materials,' 'processes,' 'products' etc. shall be clarified as the scope of application of management criteria for chemical substances in products.

2.3 Establishment of objectives & planning for implemented processes

Objectives and plans for management of chemical substances in products shall be prepared. Objectives and plans shall be revised as necessary.

2.4 Definition of organizational system, responsibility & authority

Rights and responsibilities for management of chemical substances shall be clarified.

3 Design and development

3.1 Design and development (Terms marked with * are defined below.)

3.1.1 Design for manufacture of substances*/preparations*

When manufacturing substances/preparations, information on chemical substances in raw materials shall be verified, and products shall be designed to satisfy management criteria.

Specify specifications of purchased products if necessary.

3.1.2 Design for manufacture of articles* using substances/preparations

When manufacturing articles from substances/preparations, information on chemical substances in raw materials shall be verified.

Any possible changes in concentration and type of contained chemical substances in processes shall be understood. Furthermore, the product shall be verified as conforming to the management criteria.

3.1.3 Design for manufacture of articles using articles

When manufacturing new articles from existing articles, information on chemical substances in articles (e.g. parts), and conformance of the product to the management criteria, shall be verified.

[Term]

(1) Substance: Chemical substance (chemical element or compound)

Examples: Lead oxide, nickel chloride, benzene

(2) Preparation: A mixture or solution comprising two or more individual chemical substances

Examples: Paints, inks, solders prior to use, adhesives, alloys

(3) Article: An object which, during production, is given a special shape, surface or design which determines the object's end-use function. Original parts (the first article manufactured through a manufacturing process in which the amounts of chemical substances contained are fixed) are also included. Liquid or granular materials are not regarded as articles.

Examples: PCs and their keyboards, keys of a keyboard, resin cases, screws, capacitors

3.2 Purchase management

3.2.1 Verification and acquisition of chemical substances information

Information on the chemical substances in purchased products (IN information) shall be acquired after the verification that it contains the necessary details, and that it is compatible with the management criteria.

For new products and changed products, acquisition and verification of information on chemical substances in accordance with the management criteria shall be completed prior to commencing mass production.

3.2.2 Verification of supplier management status

When selecting a new supplier, the status of management of chemical substances in the supplier's products shall be verified. When continuing with an existing supplier, reconfirmation shall be conducted as necessary. Measures for verification results shall be fixed. Supplier items to be verified, criteria, frequency, and method etc. may be set in relation to risk level.

3.3 Acceptance verification

When accepting purchased products, such products shall be verified as compatible with company management criteria. Items to be verified, criteria, method, and frequency etc. may be selected in relation to the risk level of the purchased products.

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3.4 Process management

3.4.1 Preventing incorrect use, admixture and contamination

Implementation of measures to prevent incorrect use, admixture and contamination of chemical substances shall be subject to management.

3.4.2 Appropriate management of reaction process

Management shall ensure that residues do not remain, or are not created, when management criteria for chemical substances subject to management are exceeded, due to changes in constituents and concentrations.

3.4.3 Management of manufacturing sub-contractors

Management of manufacturing sub-contractors shall be appropriate.

3.5 Shipping Verification

Products shall be shipped after verification that all specified items have been checked, including cases of implementation during acceptance, or during a process.

3.6 Traceability

Product traceability shall be reliable.

3.7 Change Control

Rules for control of changes in management of chemical substances shall be determined, and the following details shall be clarified.

(1) Elemental changes having possible effects on chemical substances

Changes and additions in suppliers, changes in purchased items, and changes in processes etc. (including changes not only in the company such as manufacturing conditions, manufacturing facilities, molds, and jigs, but changes in supplier and sub-contractors etc.).

(2) Company internal and external procedures.

Details to be verified, means of verification, approval processes etc.

(3) Methods of transmitting information inside and outside the company.

Recording changes, notification, identification information etc.”

3.8 Non-conformity response

Rules for measures to deal with non-conforming products (emergency measures, determination of causes, preventing reoccurrence, horizontal deployment etc.) shall be determined.

4 Management of human resources, documentation and information

4.1 Education and training

Details of education and training required for management of chemical substances, and related persons shall be identified and implemented.

4.2 Management of documents and records

Rules related to management of chemical substances shall be documented, maintained, and managed. Records of results of operation shall be prepared and stored appropriately.

4.3 Communication (provision of information)

Information on chemical substances (OUT information) shall be provided appropriately to Nikon Group. Appropriate response shall be provided to enquiries on the management system for chemical substances.

5 Performance (state of implementation) evaluation and improvement

Status of management of chemical substances shall be verified periodically through an internal audit and other verification methods, and items requiring improvement shall be improved. Results of verification shall be reported to managers etc.

6 Management review (correction by business management)

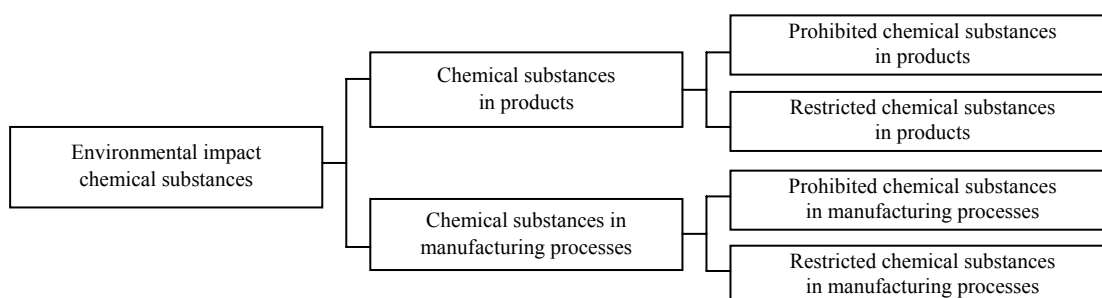
When the manager determines, from the results of an internal audit and other verification methods, that there are problems with non-conformance, improvements shall be implemented and reflected in the next objective.

Note: The above requirements are created for the Nikon Group based on the Guidelines for the Management of Chemical Substances in Products Ver. 2 prepared by the Japan Green Procurement Survey Standardization Initiative (JPGSSI) and the Joint Article Management Promotion-consortium (JAMP).

4.2 Requirements for environmental impact chemical substances

This section describes the basic requirements regarding the use of environmental impact chemical substances used in procured products and manufacturing processes, which have been established by the Nikon Group based upon applicable national regulations, both in Japan and overseas, as well as related international conventions. Suppliers are requested to observe these standards.

However, in cases where a division or a group company of Nikon makes any separate request, that request should be met.

Figure 2: Composition of chemical substances prescribed in these standards

4.2.1 Chemical substances standards in products

1) Prohibited chemical substances in products

The use of these chemical substances in Nikon products is prohibited. See (1) to (6) below for details.

- (1) Chemical substances prohibited to be used in procured products (except optical glass, filter glass, and batteries) and their threshold amounts

Table 1: Prohibited chemical substances in products and their threshold amounts

Prohibited substances		Threshold amount [ppm] ^{*1}
1	Cadmium and its compounds	100 ppm (metallic conversion)
2	Hexavalent chromium compounds	1000 ppm (metallic conversion)
3	Lead and its compounds	1000 ppm (metallic conversion) 300 ppm (metallic conversion, in PVC cable covering)
4	Mercury and its compounds	1000 ppm (metallic conversion)
5	Polybrominated biphenyls (PBBs)	1000 ppm
6	Polybrominated diphenylethers (PBDE)	1000 ppm
7	Polychlorinated biphenyls (PCBs)	Intentionally added ^{*5}
8	Polychlorinated naphthalenes (PCNs with more than 3 chlorine atoms)	Intentionally added ^{*5}
9	Short-chain chlorinated paraffins with carbon chain length 10 to 13	Intentionally added ^{*5}
10	Tributyl tins (TBTs) Triphenyl tins (TPTs)	Intentionally added ^{*5}
11	Tributyl tin oxide (TBTOs)	Intentionally added ^{*5}
12	Ozone depleting substances (CFCs, HCFCs, others) ^{*2}	Intentionally added ^{*5}
13	Radioactive substances	Intentionally added ^{*5}
14	Asbestos	Intentionally added ^{*5}
15	Certain azodyes and pigments ^{*3}	Intentionally added ^{*5}
16	Polyvinyl chlorides (PVC) ^{*4}	Intentionally added ^{*5}
17	Perfluorooctane sulfonates (PFOs)	Intentionally added ^{*5}

*1 Maximum allowable concentration (by weight) for a homogenous material.

*2 As specified in the Montreal Protocol. The date after which HCFC can no longer be used as a refrigerant in continuous production will be specified by the Nikon Group.

- *3 These produce 22 kinds of aromatic amines, as specified in EU Directive 2002/61/EC. Prohibited from use in leather or textiles that could result in prolonged contact with human skin.
- *4 Except in cases where functionality or availability makes substitution of an alternative substance difficult. Refer also to item (4) Precautions when using polyvinyl chloride (PVC) in this section.
- *5 Added during manufacturing process, etc., irrespective of quantity. Ordinary impurities do not fall under this category.

- (2) Prohibited chemical substances and threshold amount for optical and filter glass
As described on the previous page in item (1) *Chemical substances prohibited from use in materials and their threshold amount*, the Nikon Group prohibits the use of these substances to optical and filter glass. It has also made arsenic a prohibited substance and specified its threshold amount as “intentionally added”. The reason being that both the Nikon Group and the optical industry as a whole have strong policies which have resulted in most glass materials already having been converted to eco-materials.

However, the use of cadmium, lead and arsenic is conditionally permitted. The reasons: their substitutions are not available currently because of material technology, and they are essential technically and scientifically to maintain the optical performance required in product designing.

Note: There are no legal restrictions on the use of cadmium, lead, or arsenic in optical and filter glass.

For other optical materials such as optical plastic or optical crystal, the prohibitions specified in (1) *Chemical substances prohibited from use in materials and their threshold amount* apply.

- (3) Special examples for batteries
Regarding the use prohibited substances in batteries as specified in (1) *Chemical substances prohibited from use in materials and threshold amount* on the previous page, the Nikon Group requires that the use of cadmium and its compounds, hexavalent chromium compounds, lead and its compounds, and mercury and its compounds all comply with EU Batteries Directive (91/157/EEC, 2006/66/EC), and that the use of other substances comply with (1) *Chemical substances prohibited from use in materials and their threshold amount*.

Component parts and members (cases, auxiliary circuits, etc.) other than battery cell are to comply with these standards.

- (4) About polyvinyl chloride (PVC)
- a) Polyvinyl chloride (PVC) refers to CAS No. 9002-86-2.
 - b) Vinyl chloride-acetate copolymer is distinct from PVC and is not subject to prohibition.
 - c) Product examples where PVC is likely to be used:
Molding products, integrated molding products, packaging materials, coatings/pigments/inks, adhesives
 - d) Exempted applications and product examples where PVC is allowed to be used

Table 2: Exempted applications and product examples where PVC is allowed to be used

Application	Usage example
Uses that greatly affect product safety	<ul style="list-style-type: none"> • power cable • external interface connecting cable • vinyl high-voltage electrical cable • flexible appliance wire, for which substitutions would be difficult
A part of cables having to do with the above and necessitated by manufacturing reasons	<ul style="list-style-type: none"> • integrated power cable with connector and plug • PVC for ferritic core
In the case that functionality or availability makes substitution of an alternative substance difficult.	<ul style="list-style-type: none"> • Wrinkle finish coatings • electrical or electronic elements of non-custom products
Applications specified by the customer	

- (5) About perfluorooctane sulfonates (PFOSs)
- a) Monocyclic formula
 $C_8F_{17}SO_2X$
(X: OH, metallic chloride, halides and other derivatives including amide and polymer)
 - b) Exempted applications
Use of PFOS is not prohibited in the following, for which substitutions would be difficult
 - Photoresist and antireflection coating agent for photo lithography
 - Photo coating agent applied to films, papers and original printing sheets
 - Mist-prevention agents (that use the best possible technology to minimize PFOS emission) for non-decorative hard chrome (VI) plating and lubricants used in controlled electrical plating process.
- (6) Exempted applications where prohibited chemical substances in products are allowed to be used
As a principle, the Nikon Group also exempts the same prohibited substances as listed in the Annex (List of applications exempted) to EU RoHS Directive 2002/95/EC.
However, the Nikon Group does not exempt the following application.

The use of lead and cadmium in optical or filter glass

Reason: As described in “(2) Prohibited chemical substances in optical and filter glass products and their threshold amount” on page 10

The exemptions from prohibition shown below were verified by the Nikon Group as of July 1, 2010. The RoHS directive is, however, subject to continual revision, and suppliers should be responsible for ensuring that they refer to the latest version when necessary.

- a) Cadmium and its compounds
 - Used in electrical contacts and cadmium plating except for applications banned under Directive 91/338/EEC
 - Used in printing inks for the application of enamels on borosilicate glass
 - Cadmium alloys as electrical/mechanical solder joints to electrical conductors located directly on the voice coil in transducers used in high-powered loudspeakers with sound pressure levels of 100 dB(A) and more.
- b) Hexavalent chromium compounds
 - Used as an anti-corrosive of the carbon steel cooling system in absorption refrigerators
- c) Lead and its compounds
 - Used in glass of cathode ray tubes, electronic components and fluorescent tubes.
 - Used as an alloying element in steel containing up to 0.35% lead by weight, aluminum containing up to 0.4% lead by weight and as a copper alloy containing up to 4% lead by weight.
 - Lead in high melting temperature type solders containing 85% or more lead by weight.
 - Used in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signaling, transmission as well as network management for telecommunications.
 - Used in electronic ceramic parts (e.g., piezoelectric devices).
 - Used in lead-bronze bearing shells and bushes.
 - Used in compliant pin connector systems.
 - Used as a coating material for the thermal conduction module c-ring.
 - Used in solders consisting of more than two elements for the connection between the pins and the package of microprocessors with a lead content of more than 80% and less than 85% by weight.
 - Used in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit Flip Chip packages.
 - Used in linear incandescent lamps with silicate coatings.
 - Used as radiant agent in High Intensity Discharge (HID) lamps used for professional reprography applications.

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- Used up to 1% by weight as an activator in the fluorescent powder of discharge lamps when used as sun tanning lamps containing BSP ($\text{BaSi}_2\text{O}_5:\text{Pb}$) as well as in specialty lamps containing SMS ($(\text{Sr}, \text{Ba})_2\text{MgSi}_2\text{O}_7:\text{Pb}$) for diazo-printing reprography, lithography, insect traps, photochemistry, or hardening processes.
- Used with PbBiSn-Hg and PbInSn-Hg in specific compositions as main amalgam and with PbSn-Hg as auxiliary amalgam in very compact energy saving lamps (ESL).
- Used in glass used for bonding front and rear substrates of flat fluorescent lamps used for Liquid Crystal Displays.
- Used in printing inks for the application of enamels on borosilicate glass.
Present as impurity in RIG (rare earth iron garnet) Faraday rotators used for fiber optic communications systems.
- Used in finishes of fine pitch components other than connectors with a pitch of 0.65 mm or less with NiFe lead frames and lead in finishes of fine pitch components other than connectors with a pitch of 0.65 mm or less with copper lead-frames.
- Used in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors.
- Used in plasma display panels (PDP) and surface conduction electron emitter displays (SED) used in structural elements; notably in the front and rear glass dielectric layer, the bus electrode, the black stripe, the address electrode, the barrier ribs, the seal frit and frit ring as well as in print pastes.
- Used in the glass envelope of Black Light Blue (BLB) lamps.
- Used in solder for transducers used in high-powered (designated to operate for several hours at acoustic power levels of 125 dB SPL and above) loudspeakers.
- Lead bound in crystal glass as defined in Annex I (Categories 1, 2, 3 and 4) of Council Directive 69/493/EEC.
- Lead in soldering materials in mercury free flat fluorescent lamps (which e.g. are used for liquid crystal displays, design or industrial lighting).
- Lead oxide in seal frit used for making window as assemblies for Argon and Krypton laser tubes.

d) Mercury and its compounds

- Used in compact fluorescent lamps not exceeding 5 mg per lamp.
- Used in straight fluorescent lamps for general purposes but not exceeding 10 mg of halophosphate, 5 mg of triphosphate with normal lifetime, or 8 mg of triphosphate with long lifetime.
- Used in straight fluorescent lamps for special purposes.
- Used in other lamps not specifically mentioned here.

2) Restricted chemical substances in products

(1) The following restricted chemical substances must be used under careful management when contained in procured products.

Table 3: Restricted chemical substances in products

1	Antimony and its compounds
2	Arsenic and its compounds
3	Beryllium and its compounds
4	Bismuth and its compounds
5	Nickel and its compounds, except for metallic alloys such as stainless steel. (Restriction limited to uses having potential for direct contact with human body.)
6	Selenium and its compounds
7	Brominated Flame Retardants (Brominated Flame Retardants except PBB and PBDE. When specifying substances included, use either ISO code 1043-4 or CAS No.)
8	Phthalate compounds (Limited to Bis (2-ethylhexyl) phthalate, dibutyl phthalate) Butyl benzyl phthalate (BBP) (CAS №85-68-7) Dibutyl phthalate (DBP) (CAS № 84-74-2) Bis(2-ethylhexyl) phthalate (DEHP) (CAS № 117-81-7) Diisodecyl phthalate (DIDP) (CAS № 26761-40-0, 68515-49-1) Diisononyl phthalate (DINP) (CAS № 28553-12-0, 68515-48-0) Di-n-octyl phthalate (DNOP) (CAS № 117-84-0)

(2) If any Substance of Very High Concern (SVHC) under the EU REACH Regulation is contained in a procured product, it must be used under careful management, and information on the substance must be provided immediately upon separate request by the Nikon Group.

3) Restricted substances in packaging

Packaging materials are subject to the same requirements described in “1) Prohibited chemical substances in products (1) Chemical substances prohibited in procured products (except optical glass, filter glass, and batteries) and their threshold amount.” The following four substances, however, have a threshold amount as shown below.

Cadmium, hexavalent chromium, lead, mercury, and their compounds	Total no more than 100 ppm (metallic conversion)
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4) Restricted substances in equipment and tools (either general purpose or exclusive)

Equipment and tools, either general purpose or exclusive, and their packaging are exempt from these standards. Suppliers are, however, required to conform to applicable national regulations of each country and relevant international conventions.

4.2.2 Chemical substances standards in manufacturing processes

1) Prohibited chemical substances in manufacturing processes

Suppliers are prohibited from using the following substances in manufacturing processes in Japan. Manufacturing processes in countries other than Japan are to conform to applicable national regulations of each country and relevant international conventions.

Table 4: Prohibited chemical substances in manufacturing processes in Japan

In compliance with Japanese law	Substances (not including HCFCs) specified in laws and regulations for the protection of the ozone layer. Refer to Annex 4.
	Substances designated as Class 1 in the Law Concerning the Examination and Regulation of Manufacture etc. of Chemical Substances. Refer to Annex 5.
	Hazardous materials prohibited from manufacture in the Industrial Safety and Health Law. Refer to Annex 6.
	Dusts (asbestos, etc.) specified in the Air Pollution Control Law

Note: The Nikon Group has exempted HCFCs from this prohibition because of an agreement reached during the 19th Meeting of the Parties to the Montreal Protocol regarding a schedule to eliminate both consumption and production of HCFCs by 2020.

2) Restricted chemical substances in manufacturing processes

Use of the following restricted substances in manufacturing processes in Japan is to be controlled by the supplier. Manufacturing processes in countries other than Japan are to conform to applicable national regulations of each country and relevant international conventions.

Table 5: Restricted chemical substances in manufacturing processes in Japan

In compliance with Japanese law	Chemical substances designated as Class 1 in the Pollutant Release and Transfer Register (PRTR) Law (Refer to the Ministry of the Environment web site: http://www.env.go.jp/en/chemi/prtr/prtr.html Subject to change without notice.)
	11 hazardous materials designated as Class 1 in the Soil Contamination Countermeasures Law Carbon tetrachloride 1,2-dichloroethane 1,1-dichloroethane Cis-1,2-dichloroethane 1,3-dichloropropene Dichloromethane Tetrachloroethylene 1,1,1-trichloroethane 1,1,2-trichloroethane Trichloroethylene Benzene

Note: In edition 2.0 of these standards, the Nikon Group has designated hexavalent chromium compounds as a prohibited substance. In this edition (3.0), however, it has been changed to a restricted substance. Since black chrome and chromate surface treatments, especially, could potentially leave residual levels that exceed the maximum ppm values given here, either an alternative treatment or care to ensure that all residual material has been removed is necessary.

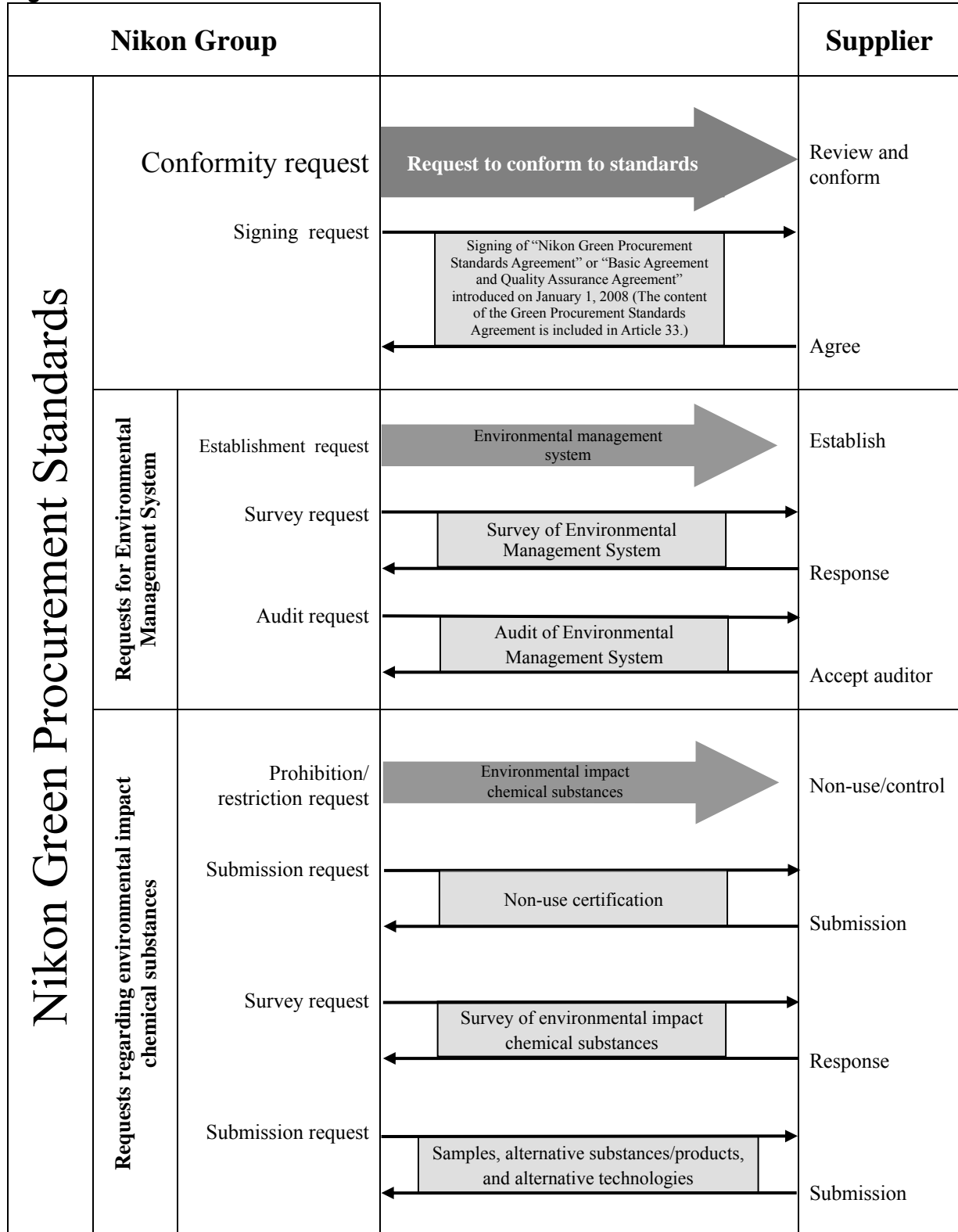
Also, the Nikon Group requests the cooperation of all suppliers in promoting conversion to alternative surface treatments that do not use hexavalent chromium compounds.

It should be noted, however, that hexavalent chromium compounds is one of the chemical substances designated as Class 1 in the PRTR Law, as stated in Table 5: Usable chemical substances under management/control in manufacturing processes.

5. Procedures for Nikon Green Procurement Standards

In order to meet all the requirements stated in “4. Requirements,” the Nikon Group requests the cooperation of all suppliers in following the procedures shown below.

Figure 3: Procedures for Nikon Green Procurement Standards



5.1 Nikon Green Procurement Standards Agreement/Basic Agreement and Quality Assurance Agreement

Submission of the signed Nikon Green Procurement Standards Agreement (Annex 2) or Basic Agreement and Quality Assurance Agreement introduced on January 1, 2008 (the content of the Nikon Green Procurement Standards Agreement is included in Article 33 (Environmental Management)) is a prerequisite to becoming a supplier to the Nikon Group. These written agreements signify that the supplier consents to conform to the standards as well as to cooperate upon request with the Nikon Group in matters related to these standards.

Responsible unit/company: Procurement & Facilities Management Department or applicable Nikon Group Company

The applicable Nikon business unit or Nikon Group Company will contact and request each supplier to sign the agreement and will collect it.

Note: The Basic Agreement and Quality Assurance Agreement, in principle, applies only to suppliers in Japan.

5.2 Surveys and audits of environmental management system

Surveys and audits of environmental management system are promoted by Procurement & Facilities Management Department, or at each Nikon Group Company.

5.2.1 Environmental management system surveys

The Nikon Group requests that all suppliers who have agreed to comply with these standards submit a written description of their Management System of Environmental Protection and Management System of Chemical Substances in Products in the form of answers to a questionnaire regarding their environmental management system.

Suppliers to both Nikon Corporation and Nikon Group companies are permitted to return only the section regarding their environmental management system for products supplied to Nikon Corporation.

Responsible unit/company: Procurement & Facilities Management Department or applicable Nikon Group Company

The applicable Nikon business unit or Nikon Group Company will contact and request each supplier to fill out the questionnaire and will collect it.

5.2.2 Environmental management system audits

The Nikon Group reserves the right to visit and audit as necessary the environmental management system of all suppliers who have agreed to comply with these standards.

The purpose of such an audit is to confirm the performance of both the Management System of Environmental Protection and Management System of Chemical Substances in Products. The Nikon Group implements these audits only with the prior understanding of the supplier, but will also request that the supplier prepare in advance documentation necessary to substantiate the audit.

Responsible unit/company: Procurement & Facilities Management Department, or applicable Nikon business unit or Nikon Group Company

5.2.3 Nikon Environmental Partner designation

Upon completion of an environmental management system survey and audit, the Nikon Group certifies suppliers who have achieved an outstanding overall assessment as a Nikon Environmental Partner.

It is important to bear in mind that this certification, however, relates to the supplier's environmental management system itself, not to procured products. The Nikon Group does, however, give priority to doing business with its Environmental Partners, and endeavors to boost mutual understanding as well as to create a common advantage as we contribute to the formation of a sustainable society.

Responsible unit: Procurement & Facilities Management Department

5.3 Requirements for environmental impact chemical substances

The timing and methods by which the requirements of these standards for environmental impact chemical substances are applied will be determined and implemented by each Nikon business unit in accordance with the Nikon Basic Environmental Management Policy and the Nikon Basic Green Procurement Policy. However, regarding the operations of group companies, the timing and methods will be determined by each group company.

Therefore, it is possible that discrepancies could arise between a Nikon business unit and Nikon Group Companies in their requirements for environmental impact chemical substances.

5.3.1 Non-use guarantee

The Nikon Group requests that suppliers submit in writing guarantee of non-use to attest that procured products conform to these standards (Annex 3). Details of this submission are determined by each Nikon business unit and Nikon Group Company.

Responsible unit/company: Applicable Nikon business unit or Nikon Group Company

5.3.2 Survey of environmental impact chemical substances

The Nikon Group performs surveys on the use of environmental impact chemical substances. The content, format, and necessary substantiating documentation are determined by each Nikon business unit or Nikon Group Company.

Also, it is requested that a report be filed with the Nikon Group whenever a change in the use of environmental impact chemical substances is implemented.

Depending upon the results of the survey, the Nikon Group could request with the prior understanding of the supplier to audit its manufacturing processes.

Responsible unit/company: Applicable Nikon business unit or Nikon Group Company

5.3.3 Submission of alternative products and technologies

In order to eliminate the use of prohibited chemical substances in products and manufacturing processes, the Nikon Group requests the cooperation of suppliers in submitting samples of the whole or part of products for evaluation and analysis, switching to alternative products or materials, and introducing alternative technologies.

Responsible unit/company: Applicable Nikon business unit or Nikon Group Company

6. Measures in response to requirements

6.1 Environmental management system

The Nikon Group reserves the right to request that suppliers implement enhancements if they do not satisfy the requirements of these standards. The Nikon Group will provide its full cooperation and support to any supplier that continues to participate proactively in the implementation of such enhancements, even if they should prove difficult to achieve.

In the event that a supplier proves, however, to be unwilling or incapable of implementing these enhancements, the Nikon Group further reserves the right to cease procurement.

6.2 Environmental impact chemical substances

The Nikon Group requests that suppliers submit the non-use guarantee and respond to surveys on environmental impact chemical substances. In the event that a supplier is found to be using any of the prohibited substances in products or manufacturing processes specified in these standards, the Nikon Group reserves the right to request the supplier to stop using the substance, replace it with an alternative substance, and/ or introduce alternative technology.

In the event that a supplier proves, however, to be unwilling or incapable of implementing these enhancements, the Nikon Group further reserves the right to cease procurement.

7. Standards revision

The Nikon Group will undertake to revise these standards as necessary to remain in step with changes in applicable laws and regulation or as stipulated by the expectations of the general public. Notification of revisions will be made in writing in a timely fashion. If necessary, notification of deadlines for complying with such revisions will be made in writing after mutual consultation.

8. Handling of information from all suppliers

Proprietary information provided to the Nikon Group as a part of compliance with these standards will be handled in the strictest confidentiality, as stipulated in the Nikon Basic Suppliers Contract*. (*Currently, only Japanese version is available.)

Annexes

Annex 1: Nikon Group companies responsible for the management and enforcement of the Nikon Green Procurement Standards

Nikon Group companies responsible for the management and enforcement of the Nikon Green Procurement Standards (As of July 1, 2010)

The number of these Nikon Group Companies may change from time to time.

Japan			
1	Tochigi Nikon Precision Co., Ltd.	10	Nikon Optical Shop Co., Ltd.
2	Miyagi Nikon Precision Co., Ltd.	11	Nikon Vision Co., Ltd.
3	Nikon Tec Corporation	12	Nikon Engineering Co., Ltd.
4	Tochigi Nikon Corporation	13	Nikon Systems Inc.
5	Sendai Nikon Corporation	14	Nikon Business Service Co., Ltd.
6	Nikon Imaging Japan Inc.	15	Nikon Tsubasa Inc.
7	Kurobane Nikon Co., Ltd.	16	Nikon-Essilor Co., Ltd.
8	Nikon Instech Co., Ltd.	17	Nikon and Essilor International Joint Research Center Co., Ltd.
9	Hikari Glass Co., Ltd		
Americas			
18	Nikon Americas Inc.	22	Nikon Instruments Inc.
19	Nikon Precision Inc.	23	Nikon Canada Inc.
20	Nikon Research Corporation of America	24	Nikon Mexico, S.A. de C.V.
21	Nikon Inc.		
Europe			
25	Nikon Holdings Europe B.V.	33	Nikon Kft.
26	Nikon Precision Europe GmbH	34	Nikon s.r.o.
27	Nikon Europe B.V.	35	Nikon Polska Sp.z o.o.
28	Nikon AG	36	Nikon (Russia) LLC
29	Nikon GmbH	37	Nikon Instruments Europe B.V.
30	Nikon U.K. Ltd.	38	Nikon Instruments S.p.A.
31	Nikon France S.A.S.	39	Nikon Metrology NV
32	Nikon Nordic AB		
Asia and Oceania			
40	Nikon Precision Korea Ltd.	50	Nikon Imaging Korea Co., Ltd.
41	Nikon Precision Taiwan Ltd.	51	Nikon (Thailand) Co., Ltd.
42	Nikon Precision Singapore Pte Ltd	52	Nikon Imaging (China) Co., Ltd.
43	Nikon Precision Shanghai Co., Ltd.	53	Nikon International Trading (Shenzhen) Co., Ltd.
44	Nikon Hong Kong Ltd.	54	Nikon Instruments (Shanghai) Co., Ltd.
45	Nikon Singapore Pte Ltd	55	Nikon Instruments Korea Co., Ltd.
46	Nikon (Malaysia) Sdn. Bhd.	56	Guang Dong Nikon Camera Co., Ltd.
47	Nikon Imaging (China) Sales Co., Ltd.	57	Hang Zhou Nikon Camera Co., Ltd.
48	Nikon Australia Pty Ltd	58	Nanjing Nikon Jiangnan Optical Instrument Co., Ltd.
49	Nikon India Private Limited		

Annex 2: Nikon Green Procurement Standards Agreement

Declaration

To : NIKON CORPORATION (“Nikon”)
 From : _____ (“Supplier”)

1. The Supplier hereby represents and warrants that:
 - a) The Supplier has correct understandings of the Nikon Green Procurement Standards (NGPS);
 - b) The Supplier shall comply with the NGPS and all relevant laws and international regulations concerning chemical substances (“Regulations”); and
 - c) The Supplier shall defend, hold harmless and indemnify Nikon from any claim arising out of or related to the Supplier’s failure to comply with the NGPS and the Regulations.
2. The Supplier hereby agrees that:
 - a) Nikon may revise the NGPS at its sole discretion in accordance with the trends and changes of economic circumstances and revisions of the Regulations;
 - b) When the Supplier is informed of revisions of the NGPS, the Supplier shall comply with the revised versions of the NGPS; and
 - c) All disputes, controversies or differences which may arise between the parties hereto, out of or in relation to or in connection with this Declaration will be finally settled by arbitration in Tokyo, Japan, in accordance with the Commercial Arbitration Rules of The Japan Commercial Arbitration Association.
3. This Declaration will come into effect as of the date below and will be valid for the period of one (1) year and will be automatically renewed for successive period of one (1) year each unless terminated by mutual consent of Nikon and the Supplier.

The undersigned is an authorized representative of the Supplier.

Date	
Signature	
Name and Title	
Company Name and Address	

Annex 4: Ozone-depleting substances

Other than HCFC

Annex A-1/2 to the Montreal Protocol

No.	CAS No.	Ozone-depleting substances	Major Applications
1	—	Chlorofluorocarbon : CFC-11, 12, 113, 114, 115	Refrigerants, solvents
2		Halon-1211, 1301, 2402	Extinguishing agents

Annex B-1/2/3 to the Montreal Protocol

3	—	Chlorofluorocarbon : CFC-13, 111, 112, 211, 212 CFC-213, 214, 215, 216, 217	Refrigerants, solvents
4	56-23-5	Carbon tetrachloride	Extinguishing agent, solvents, detergents
5	71-55-6	1,1,1-Trichloroethane	Solvents, detergents

Annex C-2 to the Montreal Protocol

6		HBFC : Dibromodifluoromethane and so on	Extinguishing agents
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Annex E to the Montreal Protocol

7		Methyl bromide	Refrigerants, extinguishing agents and low boiling solvents
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HCFC

Annex A-1/2 to the Montreal Protocol

No.	CAS No.	Ozone-depleting substances	Major Applications
8	—	Hydrochlorofluorocarbon HCFC-21, 22, 31, 121, 122, 123, HCFC-124, 131, 132, 133, 141, 142, HCFC-151, 221, 222, 223, 224, 225, HCFC-226, 231, 232, 233, 234, 235, HCFC-241, 242, 243, 244, 251, 252, HCFC-253, 261, 262, 271	Refrigerants, solvents

Annex 5: Class I Specified Chemical Substances under Japan's Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.

No.	CAS No.	Ozone-depleting substances	Major Applications
1	1336-36-3	Polychlorinated Biphenyls (PCB)	Insulating oil (old transformers), copy paper
2	—	Polychlorinated Naphthalenes (with more than 3 chlorine atoms)	Solvents, plasticizer, lubricants
3	118-74-1	Hexachlorobenzene	Organically synthesized materials
4	309-00-2	Aldrin	Agrichemical
5	60-57-1	Dieldrin	Agrichemical
6	72-20-8	Endrin	Agrichemical
7	—	DDT	Pesticides
8	57-74-9	Chlordane	Agrichemical, termite insecticides
9	56-35-9	Bis(tributyltin) oxide	Antifoulants for fishing nets, ship bottom paint
10	—	N,N'-ditolyl-p-phenylenediamine, N-tolyl-N'-xylyl-p-phenylenediamine and N,N'-dixylyl-p-phenylenediamine	Anti-aging agents for rubber, styrene-butadiene rubber
11	732-26-3	2,4,6-tri-tert-butylphenol	Anti-oxidants
12	8001-35-2	Polychloro-2,2-dimethyl-3-methylidenebicyclo[2.2.1]heptane (synonym: toxaphene)	Pesticides
13	2385-85-5	Dodecachloropentacyclo[5.3.0.0(2.6).0(3.9).0(4.8)]decane (synonym: mirex)	Flame retardants, pesticides
14	115-32-2	2,2,2-trichloro-1,1-bis(4-chlorophenyl) ethanol (also known as kelthane or dicofol)	Miticides
15	87-68-3	Hexachlorobutane-1,3-diene	Solvents
16	3846-71-7	2-(2'-Hydroxy-3',5'-di-tert-butylphenyl) benzotriazole	Adhesives, bulking agent, inks and paints, plastics
17	—	Perfluoro(octane-1-sulfonic acid)	Plating agent, semiconductor/LSL film-forming material, extinguishing agent, water repellent, paper surface-treating agent, plastic modifier
18	307-35-7	Perfluorooctane-1-sulfonyl fluoride	Water and oil repellent, surfactant
19	608-93-5	Pentachlorobenzene	Agrichemical
20	319-84-6	(1 α ,2 α ,3 β ,4 α ,5 β ,6 β a)-1,2,3,4,5,6-hexachlorocyclohexane	By-product of lindane
21	319-85-7	Beta-HCH	By-product of lindane
22	58-89-9	Lindane	Agrichemical
23	143-50-0	Chlordecone	Agrichemical
24	—	Hexabromobiphenyl	Flame retardant
25	—	Diphenyl ether, tetrabromo derivative	Flame retardant
26	—	Benzene, 1,1'-oxybis-, pentabromo derivative	Flame retardant
27	—	Diphenyl ether, hexabromo derivative	Flame retardant
28	—	Diphenyl ether, heptabromo derivative	Flame retardant

Annex 6: Hazardous materials prohibited from manufacture under Japanese Industrial Safety and Health Law

No.	CAS No.	Ozone-depleting substances	Major Applications
1		Yellow phosphor	
2	92-87-5	Benzidine	Dyes, synthetic rubber hardeners
3	92-67-1	4-aminobiphenyl	Dye intermediates
4		Asbestos	Building materials, asbestos fabrics
5	92-93-3	4-nitrodiphenyl	Dye intermediates
6	542-88-1	Bis(chloromethyl)ether	Dyes, pigments, methylating agent
7	91-59-8	β -Naphthylamine; 2-Naphthylamine	Dye intermediates
8		Rubber cement containing solvent (including diluents) of more than 5% benzene.	
9		Drugs and other formulations containing more than 1% by weight of item Nos. 2, 3, and 5–7; or more than 0.1% by weight of No. 4.	

Revision History		
Date	Edition	Description
Oct. 1, 2005	1.0	First edition
Oct. 1, 2006	2.0	Partial revisions of typographical errors
April 1, 2008	3.0	<ul style="list-style-type: none"> • New structure, including combining section 3.3.3 <i>Requests for cooperation</i> with section 4. <i>Operations</i> as section 4. <i>Procedures for Nikon Green Procurement Standards</i> • Revisions to content of Section 1. <i>Nikon's Commitment to the Environment: 1. Introduction</i> • Revisions to Section 2. <i>Nikon Green Procurement Standards: 1. Objective</i> • 3.2.1 Chemical substances standard in procured products Eliminated "limited substances"; added <i>Special examples for batteries and Precautions when using polyvinyl chloride to Prohibited Substances</i>; added <i>Restricted substances in packaging</i>; and added <i>Restricted substances in equipment and tools</i>. • 3.2.2 <i>Chemical substances standard in manufacturing processes</i> was revised to include hexavalent chromium as a restricted substance. • Added further detail to 2. <i>Scope</i> and 3.1 <i>Requirements for environmental management systems</i> • Added new section: 7. <i>Handling of information from all suppliers</i> • Revision to Annex 1: <i>Nikon Group companies applying "Nikon Green Procurement Standards"</i>
Oct. 1, 2008	3.1	<ul style="list-style-type: none"> • 3.1.2 Establishment of environmental impact substances management system <ul style="list-style-type: none"> • Added 8. <i>traceability</i> to Table 1: <i>Environmental impact substances management system</i> • 3.2.1 Chemical substances standards in procured products <ul style="list-style-type: none"> • Added 17. <i>Perfluorooctane sulfonates (PFOSs)</i> to Table 2: <i>Chemical substances prohibited in procured products and their threshold amount</i> • Added (5) <i>About perfluorooctane sulfonates (PFOSs)</i> • Added further detail to Table 3: <i>Examples of uses of PVC</i> • Revisions to (6) <i>Applications exempted by the prohibited substances standards: The use of Deca BDE in polymeric applications</i> • Added new exemptions from prohibition to (6) <i>Applications exempted by the prohibited substances standards: The use of Deca BDE in polymeric applications: a) Cadmium and its compounds and c) Lead and its compounds</i> • Revision to Annex 1: <i>Nikon Group companies applying "Nikon Green Procurement Standards"</i>
Aug. 1, 2010	3.2	<ul style="list-style-type: none"> • Added another type of procured product to 2. <i>Applicable Scope</i> • Added 3. <i>Definition of Terms</i> • Added <i>Management System of Chemical Substances in Products</i> to 4.1.2. <i>Establishment of Management System of Chemical Substances in Products</i> • Changed the names of types of chemical substances in 4.2 <i>Requirements for environmental impact chemical substances</i> • Updated (6) <i>Exempted applications where prohibited chemical substances in products are allowed to be used</i> in 4.2.1. <i>Chemical substances standards in products 1) Prohibited chemical substances in products</i> • Changed the number of phthalate compounds from three to six, and added a provision regarding SVHC under the EU REACH Regulation in 4.2.1. <i>Chemical substances standards in products 2) Restricted chemical substances in products</i> • Upgraded Annex 1: <i>Nikon Group companies responsible for the management and enforcement of the Nikon Green Procurement Standards</i> • Upgraded Annex 5: <i>Class I Specified Chemical Substances under Japan's Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.</i>

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or

Nikon Group Companies

- Procurement Dept.

100823

The Nikon Green Procurement Standard is available for download at the following URL.

<http://www.nikon.co.jp/profile/procurement/green/index.htm>

(This URL is subject to change without prior notice.)