

SCREEN Group
Green Procurement Standards
(Twelfth Edition)

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SCREEN Holdings Co., Ltd.

<Contents>

| | |
|--|---|
| Introduction | 3 |
| 1. Objectives | 4 |
| 2. Scope | 4 |
| 3. Green Procurement Standards | 4 |
| 4. Supplier Requirements | 4 |
| 4.1 Environmental Management System Initiative | 4 |
| 4.2 Reducing the Environmental Impact of Purchased Goods | 4 |
| 5. Practice of Green Procurement | 6 |
| 6. Summary of Prohibited Substances | 8 |
| 7. Summary of Restricted Substances | 9 |

Attachments

Table 1: List of the Declarable Substances (twelfth edition)

Appendix 1: Declaration of Non-Use of Prohibited Substances (1) (second edition)

Appendix 2: Declaration of Non-Use of Prohibited Substances (2) (second edition)

Appendix 3: Memorandum of Understanding to SCREEN Group's Environmental Initiative
(second edition)

Appendix 4: Green Procurement: Environmental Conservation Activity Questionnaire

Introduction

The development of a sustainable society through the prevention of global warming and the reduction and recycling of waste, and the prevention of environmental pollution through management of chemical substances and other environmental conservation initiatives, are important aspects of corporate social responsibility (CSR). With the signing of the Kyoto Protocol and the enforcement of the European WEEE^{*1} and RoHS^{*2} directives and REACH regulation^{*3} as well as China's RoHS,^{*4} the environmental regulations governing manufactured products are increasing on a global scale and companies are faced with increasing environmental obligations and responsibilities.

By making the production of green products in green factories our top priority, we at the SCREEN Group are demonstrating that we recognize how important the adoption of a low environmental impact approach to parts, materials, packing and manufacturing processes is to environmental conservation. In order to ensure that we achieve our objectives, we have established Green Procurement Standards governing the environmental factors involved in the production of the products and materials we procure, as well as a corporate position on environmental preservation among the companies who act as our suppliers.

With the help of our suppliers, we at the SCREEN Group will continue to reduce the environmental impact of our products and avoid environmental risks. We ask for the understanding, support, and cooperation of our suppliers in this regard.

^{*1} *WEEE Directive*

Europe: Waste Electrical and Electronic Equipment Directive. Enforced August 13, 2005.
WEEE Directive was recast on July 24 2012, and it has been enforced from February 14, 2014.

^{*2} *RoHS Directive*

Europe: Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment. Enforced July 1, 2006.

RoHS Directive was recast on July 1, 2011, and it has been enforced from July 21, 2011.

COMMISSION DELEGATED DIRECTIVE (EU) 2015/863 amending RoHS Annex II the list of restricted substances was published on June 4, 2015. DEHP, BBP, DBP and DIBP will be prohibited the use from July 22, 2019

^{*3} *REACH Regulation*

Europe: Regulation concerning the Registration, Evaluation, Authorization, and Restriction of Chemicals passed by the European Parliament and Council of Ministers. Enforced June 1, 2007.

^{*4} *China RoHS*

China: Administrative Measure on the Control of Pollution Caused by Electronic Information Products. It enforced March 1, 2007.

China RoHS was recast on January 21 2016 and it has been enforced from July 1, 2016.

1. Objectives

We will actively collaborate with our suppliers to conserve the environment, advance the procurement of materials, production and transportation that have less impact on the global environment, and strive to decrease any negative effect our products may have on the environment.

2. Scope

These procurement standards apply to the procurement of parts, materials, and units (hereafter referred to as purchased goods) used in any of the products manufactured or sold by the SCREEN Group. These include all associated materials, maintenance parts, packaging materials, accessories such as manuals, auxiliary materials such as adhesives, manufacturing processes and related products developed, planned, or manufactured by third parties.

3. Green Procurement Standards

The SCREEN Group will give preference to suppliers that meet the following standards, which are designed to promote green procurement.

- (1) Preferential procurement from suppliers who actively advance environmental conservation activities

The SCREEN Group will give preference to those suppliers who have established a system for consistently advancing environmental conservation activities (an environmental management system).

- (2) Preferential procurement of environmentally sound products and materials, that is, those that do not contain, use or produce specified substances known to damage the environment
The SCREEN Group will give preference to products and materials that, in addition to complying with the chemical substance management standards established under our procurement standards, are less damaging to the environment.

4. Supplier Requirements

4.1 Environmental Management System Initiative

The SCREEN Group prefers that each supplier has in place an environmental management system certified by a third party, such as ISO 14001, KES (Kyoto Environmental Management System Standards), EcoAction 21 (Ministry of the Environment), or EcoStage, and that they are involved in initiatives to reduce greenhouse gases (such as CO₂), waste, and so on.

For those suppliers who have difficulty getting this kind of certification, we require an environmental initiative that fulfills the following five criteria:

- (1) An established corporate policy and philosophy regarding environmental conservation;
- (2) Established and enforced environmental objectives, targets, and plans;
Environmental objectives that include the reduction of greenhouse gases (such as CO₂) and similar;
- (3) An established personnel and organizational system for meeting these objectives;
- (4) Periodic confirmation of the company's level of observance of applicable regulations and environmental activities;
- (5) Environmental education for workers.

4.2 Reducing the Environmental Impact of Purchased Goods

- (1) Chemical Substance Management Standards for Purchased Goods

Purchased goods must comply with the chemical substance usage standards detailed below.

1. Prohibited substances

In accordance with applicable regulations or the SCREEN Group's standards, these are substances that may not be added intentionally to goods or packing materials purchased by the SCREEN Group nor may they be used in the manufacture of such goods or packing materials. The SCREEN Group will not purchase any goods or packing materials that intentionally contain or are manufactured using these substances or in which the

content of these substances exceed certain maximum usage limits. The SCREEN Group also prohibits the use of ozone-depleting substances in the manufacture of goods the company purchases.

2. Restricted substances

The use of these substances is not prohibited in goods the SCREEN Group purchases, but they may only be used under certain conditions, and certain substances may only be used until a certain date, after which their use will be completely prohibited. We recommend that you decrease your use of these substances or find substitutes for them, even before their use is completely prohibited.

3. Substances subject to monitoring

The use of these substances is not prohibited in goods the SCREEN Group purchases, but it is necessary to know whether or not items contain such substances, how much they contain, what components they are used in, what they are used for, and similar details. If substitute parts or materials for these substances become common in the general marketplace, and the SCREEN Group determines that they can be introduced into its products, we will actively pursue the use of such substitutes.

Substances whose use is monitored are included in the latest version of "The List of chemSHERPA Declarable Substances," which the Joint Article Management Promotion-consortium (JAMP) defines.

Table 1 features detailed information on chemical substances whose use is prohibited or limited under the SCREEN Group's standards. In addition, a summary of Prohibited Substances/ Restricted Substances is shown in page 7,8.

(2) Environmental information to be presented

In line with the chemSHERPA-AI required by JAMP, we conduct a survey of chemical substances content in supplied goods. Composition information is indispensable to an investigation answer by chemSHERPA-AI. Compliance assessment information is optional.

Please establish a chemical substance management system in alignment with the "Guidelines for the Management of Chemical Substances in Products" published by JAMP. Please respond promptly when you receive the survey or an inquiry from the SCREEN Group.

Please submit the chemSHERPA-AI survey responses in accordance with "The List of chemSHERPA Declarable Substances." Please be sure to report on the following standards for management.

- RoHS Directive
- REACH Annex XVII (Substances subject to restrictions)
- REACH SVHC (Candidate list of substances of very high concern for authorization. List of substances subject to authorisation)

- IEC 62474^{*5}

^{*5} IEC 62474

International Electrotechnical Commission: Material Declaration for Products of and for the Electrotechnical Industry Enforced March 2012.

(3) Declaration of Non-Use of Prohibited Substances

1. You may be asked to fill out a declaration for your goods based on the results of investigations into the presence or absence of chemical substances in said goods. These declarations may include the "Declaration of Non-Use of Prohibited Substances (1)" (Appendix 1) and "Declaration of Non-Use of Prohibited Substances (2)" (Appendix 2).

2. Please use the following table to determine which form to use.

| | All purchased goods | Specific purchased goods |
|---|--|--|
| Declaration of Non-Use of prohibited Substances | Appendix 1: Declaration of Non-Use of Prohibited Substances (1) (Second edition) | Appendix 2: Declaration of Non-Use of Prohibited Substances (2) (Second edition) |

The second edition of the “Declaration of Non-Use of Prohibited Substances” does not include the list of prohibited substances. The declaration shall remain in effect even after any future change in the list of prohibited substances. If you have found that prohibited substances are present in or used in the manufacture of supply goods, please report this matter to us immediately.

- (4) Reducing environmental impact in ways unrelated to chemical substance use
1. We request that you comply with all laws related to the promotion of the valid use of materials and the proper disposal and clean-up of waste as well as all legal standards related to the generation of noise, vibrations and bad odors in the environment during the manufacture of the goods we purchase.
 2. We request that you reduce the amount of energy consumed during use of your products.
 3. We request your cooperation in working to ensure that materials are used efficiently in the goods we purchase, for example through the use of recycled parts, recycled materials, and the creation of lighter, more compact and longer-lived goods.
 4. We request that the amount of waste from the goods we purchase be minimized, including waste produced in the disassembly of each part, and that the parts be made so that they can be disposed of properly.
 5. We request that you minimize the magnetic fields and noise, vibration, and bad odors given off during use by the goods we purchase.
 6. We request that you disclose environmental information on goods as quickly as possible when you receive inquiries from the SCREEN Group.

5. Practice of Green Procurement

Green procurement in accordance with the supplier requirements detailed in the sections above will be implemented as follows.

We will survey the environmental conservation activities of our suppliers, as well as the chemical substances that are contained in your products and materials.

- (1) Memorandum of Understanding of the SCREEN Group’s Environmental Initiative
To indicate your understanding of the SCREEN Group Green Procurement Standards, please submit Appendix 3, “Memorandum of Understanding of the SCREEN Group’s Environmental Initiative.”
- (2) Survey of suppliers’ environmental conservation activities
In order to determine the degree to which our suppliers have established an environmental management system, as well as the extent of their environmental conservation activities, we request that our suppliers fill out Appendix 4, the “Green Procurement Environmental Conservation Activity Questionnaire.”
1. For new suppliers, we request that you fill out Appendix 4, the “Green Procurement Environmental Conservation Activity Questionnaire,” before we start doing business together.
 2. Guidelines of the “Green Procurement Environmental Conservation Activity Questionnaire”:
 - a. Items related to establishing an environmental management system
 - Enter a “1” (numeral one) in the appropriate space if you have third-party certification, including ISO 14001, KES, EcoAction 2, or EcoStage as well as the date on which you received said certification, the inspecting agency and your registration number.
 - Enter a “1” (numeral one) in the appropriate space if you intend to obtain third-party certification, including ISO 14001, KES, Eco Action 21 or EcoStage, within one year, as well as the date on which you expect to receive certification and the inspecting agency.
 - b. Items related to environmental conservation activities
If you do not have or plan to get third-party certification, as discussed in ‘a’ above, we

request that you evaluate your own environmental conservation activity level. For any criterion you fulfill, enter a "1" (numeral one). If you do not meet a criterion, enter a "0" (numeral zero). If the criterion does not apply to you, enter a "-" (dash or hyphen).

3. We require that our suppliers improve in those areas where their environmental conservation activities do not meet our standards.

(3) Survey of the chemical substances in goods we purchase

The survey of chemical substances is carried out using the chemSHERPA-AI, changed from the JAMP AIS after April 1, 2018. Composition information is indispensable to an investigation answer in the chemSHERPA-AI. Compliance assessment information is optional.

Even after April 1, 2018, please respond/update with AIS that has already been requested by AIS. If you want respond by chemSHERPA-AI, please inform us. We can change the survey to chemSHERPA-AI (Composition information is indispensable).

1. If you, the supplier who is responding to the SCREEN Group's survey, are a trading company or distributor, it is still your responsibility to provide the requested information, so please collect any necessary data on the chemical substances in the goods you handle from the manufacturer of said products or materials. Please also include information on any substitute goods that do not contain substances whose use is prohibited or limited.
2. Please provide the chemical substance information before dealing with the goods.

We may also request other information that is relevant to green procurement, such as basic business contracts, memoranda, procurement specifications, and schematics. If you receive such requests, please give them priority over the standard requests detailed above.

6. Summary of Prohibited Substances

A summary of prohibited substances is as shown below.

For further details, refer to Table 1, "List of chemical substances subject to management."

(1) List of prohibited substances

| No. | Substance category | No. | Substance category |
|-----|--|---|--|
| 1 | Asbestos | 14 | Tributyl tin oxide (TBTO) |
| 2 | Cadmium and cadmium compounds | 15 | Perfluorooctane sulfonate and its salts (PFOS and PFOSs) |
| 3 | Hexavalent chromium compounds | 16 | Dibutyltin (DBT) compounds |
| 4 | Lead and lead compounds | 17 | Diocetyl tin (DOT) compounds ^{*7} |
| 5 | Mercury and mercury compounds | 18 | Dimethylfumarate (DMF) |
| 6 | Ozone-depleting substances ^{*6} | 19 | Perfluorocanoic acid (PFOA) and individual salts and esters of PFOA |
| 7 | Polybrominated biphenyls (PBBs) | 20 | Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified |
| 8 | Polybrominated diphenyl ethers (PBDEs) | 21 | Benzenamine, N-phenyl-reaction products with styrene and 2,4,4-trimethylpentene (BNST) |
| 9 | Polychlorinated biphenyls (PCBs) | 22 | Bis(2-ethylhexyl) phthalate (DEHP) * |
| 10 | Polychloronaphthalenes (Cl ≥ 3) | 23 | Benzyl butyl phthalate (BBP) * |
| 11 | Radioactive substances | 24 | Dibutyl phthalate (DBP) * |
| 12 | Short-chain chlorinated paraffins (C10-13) | 25 | Diisobutyl phthalate (DIBP) * |
| 13 | Tributyl tins & triphenyl tins (TPT) | * moved to the Prohibited Substances from the Restricted Substances | |

(2) List of substances whose use is prohibited in manufacturing processes

| No. | Substance category | No. | Substance category |
|-----|--|-----|-----------------------------------|
| 26 | Ozone-depleting substances ^{*6} | 27 | Chlorine-based organic detergents |

(3) List of substances whose use is prohibited in desiccants

| No. | Substance category |
|-----|--------------------|
| 28 | Cobalt chloride II |

(4) List of substances whose use is prohibited in parts that may come in contact with a human being

| No. | Substance category | No. | Substance category |
|-----|---|-----|--|
| 29 | Azo dyes and certain pigment-forming amines | 31 | Diocetyl tin (DOT) compounds ^{*7} |
| 30 | Polycyclic aromatic hydrocarbons (PAHs) | | |

^{*6} Ozone-depleting substances are classified both as substances whose use is prohibited and substances whose use is prohibited in manufacturing processes.

^{*7} Diocetyl tin (DOT) compounds are classified both as substances whose use is prohibited and substances whose use is prohibited in parts that may come in contact with a human being.

Regarding all raw materials, parts, packages and packing materials supplied to the SCREEN Group,

it is required that none of these items contain prohibited substances, except where the use is covered by an exemption (or falls below the maximum allowable limit), and that no prohibited substance be used in a manufacturing process.

If it transpires that any prohibited substance is present (or in excess of the maximum limit) in the supplied goods or in the manufacturing process, please report the finding to the SCREEN Group immediately.

Moreover, if it transpires that any prohibited substance is present in a part that may come into contact with a human being, please report the finding to the SCREEN Group immediately.

7. Summary of Restricted Substances

Restricted substances in the previous edition have been moved to the Prohibited Substances from September 1, 2018. Therefore, there are no restricted substances.

For more information, contact:

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 Or the procurement department of the relevant SCREEN Group companies.

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Document history

| | |
|--------------|---|
| Jul.1, 2002 | First edition |
| Sep.1, 2005 | Second edition Survey methods, changes to list of relevant chemicals |
| May.1, 2007 | Third edition JIG compliance, additional items on reducing the environmental impact of purchased goods in ways unrelated to chemical substance use |
| Oct.1, 2008 | Fourth edition Moved RoHS substances from limited to prohibited substance list, added PFOS to prohibited substance list |
| Oct.1, 2009 | Fifth edition Document introduction was revised, Action Guidelines renamed Environmental Policies, scope revised to include the SCREEN Group |
| Nov.1, 2010 | Sixth edition Substances of very high concern (candidates) listed in REACH regulation as of June 18, 2010, added to Limited Substances and Monitored Substances in Table1, AIS added to methods for survey of chemical substances |
| Jul.1, 2011 | Seventh edition Revised Environmental, Health, Safety and Energy Policy |
| Jan.1, 2012 | Eighth edition Strengthened REACH compliance, adopted JAMP AIS survey |
| Oct.1, 2014 | Ninth edition Reissued to reflect the company name change Contents of Table 1, Appendix 1 and Appendix 2 changed Declaration of Non-Use of Prohibited Substances updated in the second edition A summary of chemical substances subject to management added Telephone number changed |
| Feb.26, 2015 | (Ninth edition) Corrected of the publisher to SCREEN Holdings Co., Ltd. |
| Oct.1, 2016 | Tenth edition Addition of the recast description of WEEE, RoHS and China RoHS Addition of the Prohibited Substances (PFOA, HBCDD, BNST) Addition of the Restricted Substances (DEHP, BBP, DBP, DIBP) |
| Apl.1, 2017 | (Tenth edition) Update the contact information |
| Nov.1.2017 | Eleventh edition Change the survey of chemical substances to chemSHERPA-AI (Composition information is indispensable) |
| Apl.1, 2018 | (Eleventh edition) Update the contact information |
| Sep.1, 2018 | (Twelfth edition) Restricted substances (DEHP, BBP, DBP and DIBP) are moved to the Prohibited Substances |