

**DIAMOND&ZEBRA ELECTRIC MFG.CO.,LTD. Group**

# **Green Procurement Standards**

Ver. 4.3

March 2022

**DIAMOND&ZEBRA ELECTRIC MFG.CO., LTD.**  
**Quality Assurance Division**



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## <1> Basic Environmental Policy

DIAMOND ELECTRIC HOLDINGS is based on our management philosophy of “contributing to the development of our customers through ”Manufacturing “ building trust and contributing to the affluence of society”. We have been working in “Manufacturing” for a long time as a company that supports the freedom of movement and the comfort of life that people get from their cars.

Now, as a company that excels in the utilization of energy, we continue to challenge and contribute to a society that can be connected as a public institution and as a “Manufacturing company” by striving to develop technologies that contribute to the global environment and “Manufacturing”. I will declare it here again.

## <2> Description of Specific Initiatives

### 1. Applicable Range

Applies to products, components, auxiliary materials and packaging materials procured by the DIAMOND&ZEBRA ELECTRIC MFG.CO.,LTD. Group.

### 2. Definition of Terms

#### 1) Environmentally Hazardous Substances

Refers to substances the DIAMOND&ZEBRA ELECTRIC MFG.CO.,LTD. Group has determined to have a significant

impact on the global environment and the human body.

#### 2) Homogeneous Materials

Refers to materials that cannot be mechanically broken down into different materials.

Homogeneous: Entire composition is uniform

Example: Plastics, glass, metals, alloys, paper, boards, resins, coating

Mechanically Broken Down: Refers to basically materials that can be separated and broken down by mechanical action such, removal of screws, smashing, grinding and polishing.

#### 3) Containment

Refers to components constructing the product or substances added, filled, mixed or adhered to materials used for the components regardless of intentional or not.

#### 4) Impurities

Refers to substances contained in natural materials that cannot be technically removed in the purification process as industrial materials also substances that occur in the synthesis reaction process that cannot be technically removed.

#### 5) Chemical substances

Refers to elemental units and chemical compounds that exist in nature or elements or their chemical compounds obtained in an arbitrary manufacturing process.

Additives necessary to maintain stability or impurities occurring from the processed used are included. However, solvents that can be separated without affecting the change in composition or stability of single chemical substances are excluded.

Example: lead oxide, nickel chloride, benzene, etc.

#### 6) Mixture

Refers to a mixture of 2 or more chemical substances.

Example: Paint, ink, ingot alloy, solder, adhesive, resin pellet, etc.

#### 7) Article

Refers to the specific shape, appearance or design assigned during manufacturing that will greatly determine the function in end use rather than the function fulfilled by the chemical composition.

Example: Metal plate materials, gears, integrated circuits, electrical products,

transport equipment, etc.

8) SVHC : Substances of Very High Concern

Refers to carcinogenic substances, mutagenic substances, reprotoxic substances and non-biodegradable chemical substances that accumulate in the environment and living organisms that are published on a list of substances subject approval by the European Administrative Agency.

SVHC will be appended and revised each time

9) Auxiliary Materials

Refers to components not listed in the component list of the manufacturing specifications and refers to flux, diluents (thinner, alcohol), cleaning agents, masking materials / tape, packing tape, marker pens, ink, cushioning materials, desiccant, etc.

10) Domestic VT62474

Domestic VT 62474 is the abbreviation for IEC TC 111 VT62474 Japan National Committee and is one of the subcommittees established by the National Committee of IEC/TC111 (Secretariat: JEITA Environment Division) and is a domestic organization that can reflect the Japan's opinion regarding IEC62474 on attending international conferences and international voting.

11) chemSHERPA

Information dissemination scheme for communicating information on chemical substances contained in products that can be used throughout the supply chain developed under the leadership of the Ministry of Economy, Trade and Industry.

3. DIAMOND&ZEBRA ELECTRIC MFG.CO.,LTD. Group Management Standards for Environmentally Hazardous Substances

The management standards of the DIAMOND&ZEBRA ELECTRIC MFG.CO.,LTD. Group's environmentally hazardous substances are as described below.

However, please understand that there may be additional requirements in accordance with future changes in international laws and various countries' regulations.

1) Substances subject to environmental impact

(a) Prohibited substances

Addition of prohibited substances to products and packaging materials and inclusion or use of impurities beyond the threshold value is strictly prohibited.

The inspection for environmentally harmful substances should not only consist of inspection of content of materials but also continually check for contamination or use and transfer to products.

Substances prohibited from use are indicated below.

Appendix 1. "Banned Substance"

Appendix 2. "Prohibited Substances in the Manufacturing Process"

\*About applicable portion of Red phosphorus

(1) Applicable portion is a resin part where an electric field is applied regardless of DC, AC

and its voltage.

However, because water resistant coating etc. are done Excluding cases where the generation of phosphoric acid is suppressed.

In this case, please submit phosphate bleedout test data.

For confirmation and consultation of test conditions etc., please contact our company inquiries

(2) About collapse prevention film

Please use polyethylene (PE) for collapse prevention film that directly contacts products and parts.

Phthalate ester may be used as a plasticizer in polyvinyl chloride film and there is a possibility that the phthalate ester may be migrated to products and parts

And please use packing trays that make direct contact with products / parts also made of polyethylene

(b) Contained Controlled Substances

Substances requiring knowledge of presence or absence, amount contained, location of use, usage, etc., are indicated below.

i ) Appendix 3. "Contained Controlled Substances"

ii ) Substances designated by REACH \*SVHC.

\* It is necessary to report containment details when the content of substances falling under SVHC exceeds 1,000 ppm.

2) Contained environmental hazardous substances threshold value

(a) Prohibited substances must not intentionally be added.

However, application exemption use such as RoHS directives is excluded.

(b) The threshold value of impurities for applicable environmentally hazardous

substances of the DIAMOND&ZEBRA ELECTRIC MFG.CO.,LTD. Group is indicated in the applicable range of the

Appendix below. However, inclusion or use of substances of Appendix 2 "Prohibited Substances in the Manufacturing Process" is strictly prohibited.

**Appendix 1.** "Banned Substance"

**Appendix 3.** "Contained Controlled Substances"

(c) REACH SVHC shall contain less than 1,000 ppm for each substance.

4. Evaluation of Business Partners (Supplier)

The DIAMOND&ZEBRA ELECTRIC MFG.CO.,LTD. Group will evaluate the environmental management system of new business partners and when the DIAMOND&ZEBRA ELECTRIC MFG.CO.,LTD. Group considers an evaluation is necessary.

1) Construction of environmentally hazardous substance management system

Please construct and maintain and same management system as "Guidelines for Management of Chemical Substances in Products" issued by the Article Management

Promotion Council (hereinafter referred to as JAMP).

Additionally, please ask your subcontractors to also construct and maintain the management system in the same manner.

These guidelines can be obtained from Section 7 of the JAMP website.

## 2) Evaluation procedure

### (a) Self Evaluation

For new business partners and when the DIAMOND&ZEBRA ELECTRIC MFG.CO.,LTD. Group determines it necessary, we will ask you to submit the self-assessment results based on Appendix 5 “Questionnaires about Chemical Substances Management System”.

### (b) Evaluation and Judgment

Based on the self-assessment results submitted, evaluation and judgement to see the environmental management system of the business partners.

If the DIAMOND&ZEBRA ELECTRIC MFG.CO.,LTD. Group determines it necessary, on-site audit of the business partner will be conducted.

The results of the evaluation and judgment will be notified to business partners (supplier).

## 5. Conflict Minerals

We are promoting procurement activities that take into consideration social issues such as human rights and the environment, and the no use of 3TG (tantalum, tin, gold, tungsten).

Even if your supplier sells it, you should avoid using 3TG and stop using the same materials and parts promptly when the use of conflicting minerals in materials and parts procured by your suppliers becomes clear. Please take the appropriate measures.

Also, please cooperate with our survey requests.

## 6. Request for Submission of Survey Data

Please submit the survey data at new employment and at 4M change (Materials, Manufacturing Method, Equipment and Personnel).

Additionally, we will also request it when the DIAMOND&ZEBRA ELECTRIC MFG.CO.,LTD. Group determines it necessary.

Various electronic data formats can be obtained from the DIAMOND ELECTRIC HOLDINGS CO.,LTD. website.

Please refer to **Appendix 6**. “How to Fill Out and Submit Documents” for how to fill out and submit various documents.

Depending on our customer’s request, we may ask you to provide information by individual request.

### 1) Regarding submission of "Inclusion Confirmation Form"

#### (a) Survey content

Confirmation of presence or absence, amount contained, ratio of content, location of

inclusion, and usage, etc.

(b) Answering method

Please fill in and submit **Appendix 7**. "Inclusion Confirmation Form" for your answers.

2) Regarding submission of " Certificate of Non-use "

(a) Certificate content

It is to assure use and inclusion will not be done.

(b) Answering method

Please fill in **Appendix 8**. "Certificate of Non-use" and submit at the same the "Inclusion Confirmation Form" and Section 6-4) "chemSHERPA" for your answers.

3) Regarding submission of "High Precision Analysis Data"

This will be requested if the DIAMOND&ZEBRA ELECTRIC MFG.CO.,LTD. Group determines it necessary,

The substances subject to analysis are RoHS 10 substances (Lead, Cadmium, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis (2-ethylhexyl) phthalate(DEHP), Dibutyl phthalate(DBP), Benzyl butyl phthalate(BBP), Diisobutyl phthalate(DIBP)

(a) Analysis data

Please submit analytical data by a high precision analyzer or equivalent analyzer.

Fluorescent X-ray analysis data analyzed that has been correlated with analysis results of a high precision analyzer is also acceptable.

When there is more than one analysis data with one parts, please compile the analysis data for each part to in **Appendix 9**. "High Precision Analysis Data List".

For high precision analysis, please use the following analyzer.

Applicable Chemical Substance	Analyzer
Cadmium (Cd) Lead (Pb) Mercury (Hg)	ICP Emission Spectroscopic Analyzer (ICP-AEP) ICP Mass Spectrometer (ICP-MS) Atomic Absorption Spectroscopy (AAS) Fluorescent X-ray Analyzer (XRF)
Hexavalent chromium (Cr 6 +)	UV-Visible Spectrophotometer (UV-VIS) Ion Chromatograph Analyzer (IC)
Polybrominated biphenyl (PBB) Polybrominated diphenyl ethers (PBDE) Phthalic ester (DEHP,DBP,BBP,DIBP)	Gas Chromatograph Mass Spectrometer (GC-MS)

(b) Elution volume analysis data

Analytical data on the elution volume of substances specified in ISO8124-3 and EN1811 will be requested as necessary.

4) Submission of chemSHERPA (CI/AI)

Please submit chemSHERPA Data.

Please submit chemSHERPA CI data for Chemical substances and Mixtures and chemSHERPA AI data for Article.



chemSHERPA Tools and related documents can be downloaded from the URL of chemSHERPA in Section 7

7. Reference Website.

1) Joint Article Management Promotion-consortium (JAMP) and chemSHERPA.

Website: <https://chemsherpa.net/>

2) Domestic VT62474

Website: <http://www.vt62474.jp/>

3) chemSHERPA

Website : <https://cgensgeroa.net/>

4) DIAMOND ELECTRIC HOLDINGS CO.,LTD.

Share the Supply Chain

URL : <https://www.diaelec-hd.co.jp/manufacturing/supply-chain/>

8. Inquiries

For inquiries regarding contents of these standards, please inquire below.

(Guide in general)

DIAMOND&ZEBRA ELECTRIC MFG.CO.,LTD.

Procurement Division

(Technical contents etc.)

DIAMOND&ZEBRA ELECTRIC MFG.CO.,LTD.

Technical Division

DIAMOND&ZEBRA ELECTRIC MFG.CO.,LTD.

Quality Assurance Division

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## Revision History

Version No.	Ver.	Enacted/Revision Date	Revision Description
First Edition	Ver1.0	March, 25 2005	New Issue
Second Edition	Ver2.0	Oct. 16, 2006	Applicable environmentally hazardous substance list made to conform to former JGPSSI. Revision of management standards.
	Ver2.1	Jan. 10, 2007	Toy application phthalate ester management added.
	Ver2.2	Oct. 1, 2007	Addition regarding submission of "Inclusion Confirmation Form", "Non-use Assurance Form", "Precise Analysis Data".
	Ver2.3	March 14,2008	Addition of DecaBDE, PFOS to prohibited substances Threshold value, management value changed.
	Ver2.4	Aug. 6, 2008	Management value change
Third Edition	Ver3.0	April 1, 2010	Changed applicable environmentally hazardous substance list to conform to JIG MSDS plus, AIS added. Addition of detailed explanation of submission data.
Fourth Edition	Ver4.0	April. 1, 2017	Revision of applicable environmentally hazardous substance list Revision of management standards
	Ver4.1	Jan. 10, 2018	Detailed applicable portion and condition of environmental hazardous substance. Change request data to chemSHERPA
	Ver4.11	Aug. 01, 2018	Appendix 1 Attachment Prohibited Substance Details, No Correction.
	Ver4.12	Jan. 21, 2019	Appendix 8 Certificate of Non-use Error correction No.25 DIBP → BBP
	Ver4.2	February 1, 2021	Completely revised
	Ver4.3	March 1, 2022	Full : Company name changed Body: Updated Basic Environmental Policy, added Conflict Minerals, corrected No. partial review Attachment: Addition of substances due to the revision of the Chemical Substances Control Law, TSCA Law, and POPs Convention.